LAMPIRAN LISTING PROGRAM

utama.m (form utama)

function varargout = utama(varargin)

gui_Singleton = 1;
gui_State = struct('gui_Name', mfilename, ...
    'gui_Singleton', gui_Singleton, ...
    'gui_OpeningFcn', @utama_OpeningFcn, ...
    'gui_OutputFcn', @utama_OutputFcn, ...
    'gui_LayoutFcn', [], ..., ...
    'gui_Callback', []);
if nargin && ischar(varargin{1})
    gui_State.gui_Callback = str2func(varargin{1});
end

if nargout
    [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
    gui_mainfcn(gui_State, varargin{:});
end

function utama_OpeningFcn(hObject, eventdata, handles, varargin)

gbr1=imread('logo_fasilkomti.jpg');
axes(handles.axes1)
imshow(gbr1)


gbr4=imread('cicak.jpg');
axes(handles.axes4)
imshow(gbr4)


gbr5=imread('cicak.jpg');
axes(handles.axes5)
imshow(gbr5)
handles.output = hObject;

guidata(hObject, handles);

function varargout = utama_OutputFcn(hObject, eventdata, handles)
varargout(1) = handles.output;

function Untitled_1_Callback(hObject, eventdata, handles)

function Untitled_2_Callback(hObject, eventdata, handles)
tentang

function Untitled_6_Callback(hObject, eventdata, handles)

function Untitled_7_Callback(hObject, eventdata, handles)

function Untitled_3_Callback(hObject, eventdata, handles)

function Untitled_4_Callback(hObject, eventdata, handles)

program1

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close utama;

function Untitled_5_Callback(hObject, eventdata, handles)
uji
close utama;

function Untitled_8_Callback(hObject, eventdata, handles)
close utama;

function figure1_CreateFcn(hObject, eventdata, handles)

program1.m (form pengolahan dan pelatihan)
function varargout = program1(varargin)

gui_Singleton = 1;
gui_State = struct('gui_Name', mfilename, ...
    'gui_Singleton', gui_Singleton, ...
    'gui_OpeningFcn', @program1_OpeningFcn, ...
    'gui_OutputFcn', @program1_OutputFcn, ...
    'gui_LayoutFcn', [], ...
    'gui_Callback', []);

if nargin && ischar(varargin{1})
    gui_State.gui_Callback = str2func(varargin{1});
end

if nargout
    [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
    gui_mainfcn(gui_State, varargin{:});
end

function program1_OpeningFcn(hObject, eventdata, handles, varargin)

handles.output = hObject;

guidata(hObject, handles);
clc

function varargout = program1_OutputFcn(hObject, eventdata, handles)

varargout{1} = handles.output;

function Untitled_1_Callback(hObject, eventdata, handles)

function Untitled_2_Callback(hObject, eventdata, handles)

function Untitled_4_Callback(hObject, eventdata, handles)

function Untitled_5_Callback(hObject, eventdata, handles)

function Untitled_8_Callback(hObject, eventdata, handles)

utama
close program1;

function Untitled_10_Callback(hObject, eventdata, handles)
uji

function info_Callback(hObject, eventdata, handles)
function info_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
set(hObject,'BackgroundColor','white');
end

% --- Executes on button press in buka.
function buka_Callback(hObject, eventdata, handles)

edit=get(handles.edit1,'string');

    gbr1=imread([edit '1.jpg']);
    gbr2=imread([edit '2.jpg']);
    gbr3=imread([edit '3.jpg']);
    gbr4=imread([edit '4.jpg']);
    gbr5=imread([edit '5.jpg']);
    gbr6=imread([edit '6.jpg']);
    gbr7=imread([edit '7.jpg']);
    gbr8=imread([edit '8.jpg']);
    gbr9=imread([edit '9.jpg']);
    gbr10=imread([edit '10.jpg']);
    gbr11=imread([edit '11.jpg']);
    gbr12=imread([edit '12.jpg']);
    gbr13=imread([edit '13.jpg']);
    gbr14=imread([edit '14.jpg']);
    gbr15=imread([edit '15.jpg']);
    gbr16=imread([edit '16.jpg']);
    gbr17=imread([edit '17.jpg']);
    gbr18=imread([edit '18.jpg']);
    gbr19=imread([edit '19.jpg']);
    gbr20=imread([edit '20.jpg']);

guidata(hObject,handles);

    axes(handles.axes1)
    imshow(gbr1)
    axes(handles.axes2)
    imshow(gbr2)
    axes(handles.axes3)
    imshow(gbr3)
    axes(handles.axes4)
    imshow(gbr4)
    axes(handles.axes5)
    imshow(gbr5)
    axes(handles.axes6)
    imshow(gbr6)
    axes(handles.axes7)
    imshow(gbr7)
    axes(handles.axes8)
    imshow(gbr8)
    axes(handles.axes9)
    imshow(gbr9)
    axes(handles.axes10)
    imshow(gbr10)
    axes(handles.axes11)
    imshow(gbr11)
axes(handles.axes12)
imshow(gbr12)
axes(handles.axes13)
imshow(gbr13)
axes(handles.axes14)
imshow(gbr14)
axes(handles.axes15)
imshow(gbr15)
axes(handles.axes16)
imshow(gbr16)
axes(handles.axes17)
imshow(gbr17)
axes(handles.axes18)
imshow(gbr18)
axes(handles.axes19)
imshow(gbr19)
axes(handles.axes20)
imshow(gbr20)

set(handles.info,'string',
['Citra ' edit ' Berhasil Dibuka']);

function listbox2_Callback(hObject, eventdata, handles)

function listbox2_CreateFcn(hObject, eventdata, handles)

if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
  set(hObject,'BackgroundColor','white');
end

% --- Executes on button press in latih.
function latih_Callback(hObject, eventdata, handles)

% --- Executes on button press in ambil.
function ambil_Callback(hObject, eventdata, handles)

% --- Executes on button press in ekstraksi.
function ekstraksi_Callback(hObject, eventdata, handles)

et=edit=get(handles.edit1,'string');

tampil(1)=handles.axes1;
tampil(2)=handles.axes2;
tampil(3)=handles.axes3;
tampil(4)=handles.axes4;
tampil(5)=handles.axes5;
tampil(6)=handles.axes6;
tampil(7)=handles.axes7;
tampil(8)=handles.axes8;
tampil(9)=handles.axes9;
tampil(10)=handles.axes10;
tampil(11)=handles.axes11;
tampil(12)=handles.axes12;
tampil(13)=handles.axes13;
tampil(14)=handles.axes14;
tampil(15)=handles.axes15;
tampil(16)=handles.axes16;
tampil(17)=handles.axes17;
```matlab
for n=1:20
    if n==1
        sheet = 'Sheet1';
    elseif n==2
        sheet = 'Sheet2';
    elseif n==3
        sheet = 'Sheet3';
    elseif n==4
        sheet = 'Sheet4';
    elseif n==5
        sheet = 'Sheet5';
    elseif n==6
        sheet = 'Sheet6';
    elseif n==7
        sheet = 'Sheet7';
    elseif n==8
        sheet = 'Sheet8';
    elseif n==9
        sheet = 'Sheet9';
    elseif n==10
        sheet = 'Sheet10';
    elseif n==11
        sheet = 'Sheet11';
    elseif n==12
        sheet = 'Sheet12';
    elseif n==13
        sheet = 'Sheet13';
    elseif n==14
        sheet = 'Sheet14';
    elseif n==15
        sheet = 'Sheet15';
    elseif n==16
        sheet = 'Sheet16';
    elseif n==17
        sheet = 'Sheet17';
```
else if n==18
    sheet = 'Sheet18';
else if n==19
    sheet = 'Sheet19';
else if n==20
    sheet = 'Sheet20';
end
edit=get(handles.edit1,'string')
handles.citra = xlsread([edit '.xlsx'],sheet,'A1:DP120');
bagi = handles.citra;
x=mat2cell(bagi, [10 10 10 10 10 10 10 10 10 10 10 10], [10 10 10 10 10 10 10 10 10 10 10 10]);
extract=[ (sum(sum(x{1,1}))) (sum(sum(x{1,2})))
          (sum(sum(x{1,3}))) (sum(sum(x{1,4}))) (sum(sum(x{1,5})))
          (sum(sum(x{1,6}))) (sum(sum(x{1,7}))) (sum(sum(x{1,8})))
          (sum(sum(x{1,9}))) (sum(sum(x{1,10}))) (sum(sum(x{1,11})))
          (sum(sum(x{1,12})))
          (sum(sum(x{2,1}))) (sum(sum(x{2,2})))
          (sum(sum(x{2,3}))) (sum(sum(x{2,4}))) (sum(sum(x{2,5})))
          (sum(sum(x{2,6}))) (sum(sum(x{2,7}))) (sum(sum(x{2,8})))
          (sum(sum(x{2,9}))) (sum(sum(x{2,10}))) (sum(sum(x{2,11})))
          (sum(sum(x{2,12})))
          (sum(sum(x{3,1}))) (sum(sum(x{3,2})))
          (sum(sum(x{3,3}))) (sum(sum(x{3,4}))) (sum(sum(x{3,5})))
          (sum(sum(x{3,6}))) (sum(sum(x{3,7}))) (sum(sum(x{3,8})))
          (sum(sum(x{3,9}))) (sum(sum(x{3,10}))) (sum(sum(x{3,11})))
          (sum(sum(x{3,12})))
          (sum(sum(x{4,1}))) (sum(sum(x{4,2})))
          (sum(sum(x{4,3}))) (sum(sum(x{4,4}))) (sum(sum(x{4,5})))
          (sum(sum(x{4,6}))) (sum(sum(x{4,7}))) (sum(sum(x{4,8})))
          (sum(sum(x{4,9}))) (sum(sum(x{4,10}))) (sum(sum(x{4,11})))
          (sum(sum(x{4,12})))
          (sum(sum(x{5,1}))) (sum(sum(x{5,2})))
          (sum(sum(x{5,3}))) (sum(sum(x{5,4}))) (sum(sum(x{5,5})))
          (sum(sum(x{5,6}))) (sum(sum(x{5,7}))) (sum(sum(x{5,8})))
          (sum(sum(x{5,9}))) (sum(sum(x{5,10}))) (sum(sum(x{5,11})))
          (sum(sum(x{5,12})))
          (sum(sum(x{6,1}))) (sum(sum(x{6,2})))
          (sum(sum(x{6,3}))) (sum(sum(x{6,4}))) (sum(sum(x{6,5})))
          (sum(sum(x{6,6}))) (sum(sum(x{6,7}))) (sum(sum(x{6,8})))
          (sum(sum(x{6,9}))) (sum(sum(x{6,10}))) (sum(sum(x{6,11})))
          (sum(sum(x{6,12})))
          (sum(sum(x{7,1}))) (sum(sum(x{7,2})))
          (sum(sum(x{7,3}))) (sum(sum(x{7,4}))) (sum(sum(x{7,5})))
          (sum(sum(x{7,6}))) (sum(sum(x{7,7}))) (sum(sum(x{7,8})))
          (sum(sum(x{7,9}))) (sum(sum(x{7,10}))) (sum(sum(x{7,11})))
          (sum(sum(x{7,12})))
          (sum(sum(x{8,1}))) (sum(sum(x{8,2})))
          (sum(sum(x{8,3}))) (sum(sum(x{8,4}))) (sum(sum(x{8,5})))
          (sum(sum(x{8,6}))) (sum(sum(x{8,7}))) (sum(sum(x{8,8})))
          (sum(sum(x{8,9}))) (sum(sum(x{8,10}))) (sum(sum(x{8,11})))
          (sum(sum(x{8,12})))
          (sum(sum(x{9,1}))) (sum(sum(x{9,2})))
          (sum(sum(x{9,3}))) (sum(sum(x{9,4}))) (sum(sum(x{9,5})))
          (sum(sum(x{9,6}))) (sum(sum(x{9,7}))) (sum(sum(x{9,8})))
          (sum(sum(x{9,9}))) (sum(sum(x{9,10}))) (sum(sum(x{9,11})))
          (sum(sum(x{9,12})))
          ];
row = sum(extract)/12;
column = sum(extract')/12;
addition = [row(1,1) row(1,2) row(1,3) row(1,4) row(1,5) row(1,6)
row(1,7) row(1,8) row(1,9) row(1,10) row(1,11) row(1,12)
column(1,1) column(1,2) column(1,3) column(1,4)
column(1,5) column(1,6) column(1,7) column(1,8) column(1,9)
column(1,10) column(1,11) column(1,12)];
total_extraction = [extract;addition];
for a=1:14
  for b=1:12
    if total_extraction(a,b)>=5
      total_extraction(a,b)=1;
    elseif total_extraction(a,b)<5
      total_extraction(a,b)=0;
    end
  end
end

if n==1
  esheet = 'Sheet21';
elseif n==2
  esheet = 'Sheet22';
elseif n==3
  esheet = 'Sheet23';
elseif n==4
  esheet = 'Sheet24';
elseif n==5
  esheet = 'Sheet25';
elseif n==6
  esheet = 'Sheet26';
elseif n==7
  esheet = 'Sheet27';
elseif n==8
  esheet = 'Sheet28';
elseif n==9
esheet = 'Sheet29';

elseif n==10
esheet = 'Sheet30';

elseif n==11
esheet = 'Sheet31';

elseif n==12
esheet = 'Sheet32';

elseif n==13
esheet = 'Sheet33';

elseif n==14
esheet = 'Sheet34';

elseif n==15
esheet = 'Sheet35';

elseif n==16
esheet = 'Sheet36';

elseif n==17
esheet = 'Sheet37';

elseif n==18
esheet = 'Sheet38';

elseif n==19
esheet = 'Sheet39';

elseif n==20
esheet = 'Sheet40';
end

xlswrite([edit '.xlsx'],total_extraction,esheet,'A1:L14');
axes(tampil(n));
imshow(total_extraction);
end

set(handles.info,'string',['Citra ' edit ' Berhasil Diekstraksi']);

function pushbutton6_Callback(hObject, eventdata, handles)
function edit1_Callback(hObject, eventdata, handles)

% --- Executes during object creation, after setting all properties.
function edit1_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

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% --- Executes on button press in pushbutton7.
function pushbutton7_Callback(hObject, eventdata, handles)

% --- Executes on button press in binerisasi.
function binerisasi_Callback(hObject, eventdata, handles)

    edit=get(handles.edit1,'string');

    tampil(1)=handles.axes1;
    tampil(2)=handles.axes2;
    tampil(3)=handles.axes3;
    tampil(4)=handles.axes4;
    tampil(5)=handles.axes5;
    tampil(6)=handles.axes6;
    tampil(7)=handles.axes7;
    tampil(8)=handles_axes8;
    tampil(9)=handles_axes9;
    tampil(10)=handles_axes10;
    tampil(11)=handles_axes11;
    tampil(12)=handles_axes12;
    tampil(13)=handles_axes13;
    tampil(14)=handles_axes14;
    tampil(15)=handles_axes15;
    tampil(16)=handles_axes16;
    tampil(17)=handles_axes17;
    tampil(18)=handles_axes18;
    tampil(19)=handles_axes19;
    tampil(20)=handles_axes20;

    for n=1:20
        if n==1
            sheet = 'Sheet1';
        elseif n==2
            sheet = 'Sheet2';
        elseif n==3
            sheet = 'Sheet3';
        elseif n==4
            sheet = 'Sheet4';
        elseif n==5
            sheet = 'Sheet5';
        elseif n==6
            sheet = 'Sheet6';
        elseif n==7
            sheet = 'Sheet7';
        elseif n==8
            sheet = 'Sheet8';
        elseif n==9
        end
    end
sheet = 'Sheet9';

elseif n==10
    sheet = 'Sheet10';

elseif n==11
    sheet = 'Sheet11';

elseif n==12
    sheet = 'Sheet12';

elseif n==13
    sheet = 'Sheet13';

elseif n==14
    sheet = 'Sheet14';

elseif n==15
    sheet = 'Sheet15';

elseif n==16
    sheet = 'Sheet16';

elseif n==17
    sheet = 'Sheet17';

elseif n==18
    sheet = 'Sheet18';

elseif n==19
    sheet = 'Sheet19';

elseif n==20
    sheet = 'Sheet20';
end

gray=rgb2gray(getimage(tampil(n)));
thresh=graythresh(gray);
bw1=im2bw(gray,thresh);

edit=get(handles.edit1,'string')
xlswrite([edit '.xlsx'],bw1,sheet,'A1:DP120');
axes(tampil(n));
imshow(bw1);
end

set(handles.info,'string',['Citra ' edit ' Berhasil Dibinerisasi']);

function pilih_Callback(hObject, eventdata, handles)
uji

function uji_Callback(hObject, eventdata, handles)

function edit3_Callback(hObject, eventdata, handles)

function edit3_Callback(hObject, eventdata, handles)

% --- Executes during object creation, after setting all properties.
function edit3_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function excel_Callback(hObject, eventdata, handles)
% --- Executes on selection change in popupmenu2.
function popupmenu2_Callback(hObject, eventdata, handles)
% --- Executes during object creation, after setting all properties.
function popupmenu2_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

% --- Executes on button press in ubah.
function ubah_Callback(hObject, eventdata, handles)

edit=get(handles.edit1,'string');

    tampil(1)=handles.axes1;
    tampil(2)=handles.axes2;
    tampil(3)=handles.axes3;
    tampil(4)=handles.axes4;
    tampil(5)=handles.axes5;
    tampil(6)=handles.axes6;
    tampil(7)=handles.axes7;
    tampil(8)=handles.axes8;
    tampil(9)=handles.axes9;
    tampil(10)=handles.axes10;
    tampil(11)=handles.axes11;
    tampil(12)=handles.axes12;
    tampil(13)=handles.axes13;
    tampil(14)=handles.axes14;
    tampil(15)=handles.axes15;
    tampil(16)=handles.axes16;
    tampil(17)=handles.axes17;
    tampil(18)=handles.axes18;
    tampil(19)=handles.axes19;
    tampil(20)=handles.axes20;

for n=1:20

    gbr=getimage(tampil(n));
    gbr=imresize(gbr,[120 120]);

    axes(tampil(n));
    imshow(gbr);
end
set(handles.info,'string',
['Citra ' edit ' Berhasil Diubah
Ukurannya']);

function edit4_Callback(hObject, eventdata, handles)

% --- Executes during object creation, after setting all properties.
function edit4_CreateFcn(hObject, eventdata, handles)

if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

% --- Executes on button press in reset.
function reset_Callback(hObject, eventdata, handles)
bobot=zeros(168,31)
xlswrite('bobot.xlsx',bobot,'totalbobot','A1:AE168');
set(handles.info,'string','Proses Reset Bobot Berhasil');

% --- Executes on button press in latihbanyak.
function latihbanyak_Callback(hObject, eventdata, handles)
total_bobot=xlsread('bobot.xlsx','totalbobot','A1:AE168');
for m=1:31
    for n=1:20
        if n==1
            esheet = 'Sheet21';
        elseif n==2
            esheet = 'Sheet22';
        elseif n==3
            esheet = 'Sheet23';
        elseif n==4
            esheet = 'Sheet24';
        elseif n==5
            esheet = 'Sheet25';
        elseif n==6
            esheet = 'Sheet26';
        elseif n==7
            esheet = 'Sheet27';
        elseif n==8
            esheet = 'Sheet28';
        elseif n==9
            esheet = 'Sheet29';
        elseif n==10
            esheet = 'Sheet30';
        elseif n==11
            esheet = 'Sheet31';
        elseif n==12
esheet = 'Sheet32';

elseif n==13
    esheet = 'Sheet33';

elseif n==14
    esheet = 'Sheet34';

elseif n==15
    esheet = 'Sheet35';

elseif n==16
    esheet = 'Sheet36';

elseif n==17
    esheet = 'Sheet37';

elseif n==18
    esheet = 'Sheet38';

elseif n==19
    esheet = 'Sheet39';

elseif n==20
    esheet = 'Sheet40';
end

if m==1
    nama='a';
elseif m==2
    nama='ka';
elseif m==3
    nama='ba';
elseif m==4
    nama='pa';
elseif m==5
    nama='na';
elseif m==6
    nama='wa';
elseif m==7
    nama='ga';
elseif m==8
    nama='ja';
elseif m==9
    nama='da';
elseif m==10
    nama='ra';
elseif m==11
    nama='ma';
elseif m==12
    nama='ta';
elseif m==13
    nama='sa';
elseif m==14
    nama='ya';
elseif m==15
    nama='nga';
elseif m==16
nama = 'la';
elseif m==17
    nama = 'ca';
elseif m==18
    nama = 'nda';
elseif m==19
    nama = 'mba';
elseif m==20
    nama = 'i';
elseif m==21
    nama = 'u';
elseif m==22
    nama = 'satu';
elseif m==23
    nama = 'dua';
elseif m==24
    nama = 'tiga';
elseif m==25
    nama = 'empat';
elseif m==26
    nama = 'lima';
elseif m==27
    nama = 'enam';
elseif m==28
    nama = 'tujuh';
elseif m==29
    nama = 'delapan';
elseif m==30
    nama = 'sembilan';
elseif m==31
    nama = 'nol';
end

aksara = xlsread([nama '.xlsx'], esheet, 'A1:L14');
aksara = reshape(aksara, 1, 168);

for b=1:168
    if aksara(1,b)==0
        aksara(1,b)=-1;
    end
end

% aksara

if m==1
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
    -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1];
elseif m==2
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
    -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1];
elseif m==3
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
    -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1];
elseif m==4
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
    -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1];
elseif m==5
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
    -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1];
elseif m==6
elseif m==7
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==8
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==9
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==10
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==11
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==12
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==13
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==14
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==15
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==16
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==17
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==18
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==19
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==20
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==21
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==22
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==23
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==24
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==25
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1;

elseif m==26
    abjad=[-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1]
elseif m==27
    abjad=[-1 -1 -1 -1 1 -1 1 -1 1 -1 -1 -1 -1 -1 1 -1 -1];
elseif m==28
    abjad=[-1 -1 -1 -1 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1];
elseif m==29
    abjad=[-1 -1 -1 -1 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1];
elseif m==30
    abjad=[-1 -1 -1 -1 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1];
elseif m==31
    abjad=[1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1];
end

bobot = [aksara'*abjad];
if n==1
    sheet = 'Sheet1';
elseif n==2
    sheet = 'Sheet2';
elseif n==3
    sheet = 'Sheet3';
elseif n==4
    sheet = 'Sheet4';
elseif n==5
    sheet = 'Sheet5';
elseif n==6
    sheet = 'Sheet6';
elseif n==7
    sheet = 'Sheet7';
elseif n==8
    sheet = 'Sheet8';
elseif n==9
    sheet = 'Sheet9';
elseif n==10
    sheet = 'Sheet10';
elseif n==11
    sheet = 'Sheet11';
elseif n==12
    sheet = 'Sheet12';
elseif n==13
sheet = 'Sheet13';

elseif n==14
    sheet = 'Sheet14';

elseif n==15
    sheet = 'Sheet15';

elseif n==16
    sheet = 'Sheet16';

elseif n==17
    sheet = 'Sheet17';

elseif n==18
    sheet = 'Sheet18';

elseif n==19
    sheet = 'Sheet19';

elseif n==20
    sheet = 'Sheet20';
end

end

total_bobot=total_bobot+bobot;
xlswrite('bobot.xlsx',bobot,sheet,'A1:AE168');
end

disp(nama)
set(handles.info,'string',[nama 'Berhasil Dilatih']);
end
xlswrite('bobot.xlsx',total_bobot,'totalbobot','A1:AE168');
disp('selesai')
set(handles.info,'string','Proses Pelatihan Selesai');

% --- Executes on button press in olahbanyak.
function olahbanyak_Callback(hObject, eventdata, handles)
for m=1:31
    for n=1:20
        if n==1
            sheet = 'Sheet1';
        elseif n==2
            sheet = 'Sheet2';
        elseif n==3
            sheet = 'Sheet3';
        elseif n==4
            sheet = 'Sheet4';
        elseif n==5
            sheet = 'Sheet5';
        elseif n==6
            sheet = 'Sheet6';
        elseif n==7

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sheet = 'Sheet7';

elseif n==8
    sheet = 'Sheet8';

elseif n==9
    sheet = 'Sheet9';

elseif n==10
    sheet = 'Sheet10';

elseif n==11
    sheet = 'Sheet11';

elseif n==12
    sheet = 'Sheet12';

elseif n==13
    sheet = 'Sheet13';

elseif n==14
    sheet = 'Sheet14';

elseif n==15
    sheet = 'Sheet15';

elseif n==16
    sheet = 'Sheet16';

elseif n==17
    sheet = 'Sheet17';

elseif n==18
    sheet = 'Sheet18';

elseif n==19
    sheet = 'Sheet19';

elseif n==20
    sheet = 'Sheet20';
end

if m==1
    nama='a';
elseif m==2
    nama='ka';
elseif m==3
    nama='ba';
elseif m==4
    nama='pa';
elseif m==5
    nama='na';
elseif m==6
    nama='wa';
elseif m==7
    nama='ga';
elseif m==8
nama='ja';
elsewhen m==9
    nama='da';
elseif m==10
    nama='ra';
elseif m==11
    nama='ma';
elseif m==12
    nama='ta';
elseif m==13
    nama='sa';
elseif m==14
    nama='ya';
elseif m==15
    nama='nga';
elseif m==16
    nama='la';
elseif m==17
    nama='ca';
elseif m==18
    nama='nda';
elseif m==19
    nama='mba';
elseif m==20
    nama='i';
elseif m==21
    nama='u';
elseif m==22
    nama='satu';
elseif m==23
    nama='dua';
elseif m==24
    nama='tiga';
elseif m==25
    nama='empat';
elseif m==26
    nama='lima';
elseif m==27
    nama='enam';
elseif m==28
    nama='tujuh';
elseif m==29
    nama='delapan';
elseif m==30
    nama='sembilan';
elseif m==31
    nama='nol';
end
if n==1
    gambar=imread([nama '1.jpg']);
elseif n==2
    gambar=imread([nama '2.jpg']);
elseif n==3
    gambar=imread([nama '3.jpg']);
elseif n==4
    gambar=imread([nama '4.jpg']);
elseif n==5
    gambar=imread([nama '5.jpg']);
elsewhen n==6
gambar=imread([nama '6.jpg']);
eelseif n==7
gambar=imread([nama '7.jpg']);
eelseif n==8
gambar=imread([nama '8.jpg']);
eelseif n==9
gambar=imread([nama '9.jpg']);
eelseif n==10
gambar=imread([nama '10.jpg']);
eelseif n==11
gambar=imread([nama '11.jpg']);
eelseif n==12
gambar=imread([nama '12.jpg']);
eelseif n==13
gambar=imread([nama '13.jpg']);
eelseif n==14
gambar=imread([nama '14.jpg']);
eelseif n==15
gambar=imread([nama '15.jpg']);
eelseif n==16
gambar=imread([nama '16.jpg']);
eelseif n==17
gambar=imread([nama '17.jpg']);
eelseif n==18
gambar=imread([nama '18.jpg']);
eelseif n==19
gambar=imread([nama '19.jpg']);
eelseif n==20
gambar=imread([nama '20.jpg']);
end
gambar=imresize(gambar,[120 120]);

gray=rgb2gray(gambar);
thresh=graythresh(gray);
bw1=im2bw(gray,thresh);

xlswrite([nama '.xlsx'],bw1,sheet,'A1:DP120');

tampil(1)=handles.axes1;
tampil(2)=handles.axes2;
tampil(3)=handles.axes3;
tampil(4)=handles.axes4;
tampil(5)=handles.axes5;
tampil(6)=handles.axes6;
tampil(7)=handles.axes7;
tampil(8)=handles.axes8;
tampil(9)=handles.axes9;
tampil(10)=handles.axes10;
tampil(11)=handles.axes11;
tampil(12)=handles.axes12;
tampil(13)=handles.axes13;
tampil(14)=handles.axes14;
tampil(15)=handles.axes15;
tampil(16)=handles.axes16;
tampil(17)=handles.axes17;
tampil(18)=handles.axes18;
tampil(19)=handles.axes19;
tampil(20)=handles.axes20;
axes(tampil(n));
imshow(bw1);
end
set(handles.info,'string',
['Proses Binerisasi ' nama ' Selesai']);
end
disp('selesai')
set(handles.info,'string','Proses Binerisasi Selesai');

% --- Executes on button press in ekstraksibanyak.
function ekstraksibanyak_Callback(hObject, eventdata, handles)
for m=1:31
for n=1:20
  if n==1
    sheet = 'Sheet1';
  elseif n==2
    sheet = 'Sheet2';
  elseif n==3
    sheet = 'Sheet3';
  elseif n==4
    sheet = 'Sheet4';
  elseif n==5
    sheet = 'Sheet5';
  elseif n==6
    sheet = 'Sheet6';
  elseif n==7
    sheet = 'Sheet7';
  elseif n==8
    sheet = 'Sheet8';
  elseif n==9
    sheet = 'Sheet9';
  elseif n==10
    sheet = 'Sheet10';
  elseif n==11
    sheet = 'Sheet11';
  elseif n==12
    sheet = 'Sheet12';
  elseif n==13
    sheet = 'Sheet13';
  elseif n==14
    sheet = 'Sheet14';
  elseif n==15
    sheet = 'Sheet15';

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elseif n==16
    sheet = 'Sheet16';

elseif n==17
    sheet = 'Sheet17';

elseif n==18
    sheet = 'Sheet18';

elseif n==19
    sheet = 'Sheet19';

elseif n==20
    sheet = 'Sheet20';
end

if m==1
    nama='a';
elseif m==2
    nama='ka';
elseif m==3
    nama='ba';
elseif m==4
    nama='pa';
elseif m==5
    nama='na';
elseif m==6
    nama='wa';
elseif m==7
    nama='ga';
elseif m==8
    nama='ja';
elseif m==9
    nama='da';
elseif m==10
    nama='ra';
elseif m==11
    nama='ma';
elseif m==12
    nama='ta';
elseif m==13
    nama='sa';
elseif m==14
    nama='ya';
elseif m==15
    nama='nga';
elseif m==16
    nama='la';
elseif m==17
    nama='ca';
elseif m==18
    nama='nda';
elseif m==19
    nama='mba';
elseif m==20
    nama='i';
elseif m==21
nama='u';
elseif m==22
    nama='satu';
elseif m==23
    nama='dua';
elseif m==24
    nama='tiga';
elseif m==25
    nama='empat';
elseif m==26
    nama='lima';
elseif m==27
    nama='enam';
elseif m==28
    nama='tujuh';
elseif m==29
    nama='delapan';
elseif m==30
    nama='sembilan';
elseif m==31
    nama='nol';
end

handles.citra = xlsread([nama '.xlsx'],sheet,'A1:DP120');
bagi = handles.citra;
x=mat2cell(bagi, [10 10 10 10 10 10 10 10 10 10 10 10], [10 10 10 10 10 10 10 10 10 10 10 10]);
extract=[
    (sum(sum(x{1,1}))) (sum(sum(x{1,2})))
    (sum(sum(x{1,3}))) (sum(sum(x{1,4}))) (sum(sum(x{1,5})))
    (sum(sum(x{1,6}))) (sum(sum(x{1,7}))) (sum(sum(x{1,8})))
    (sum(sum(x{1,9}))) (sum(sum(x{1,10}))) (sum(sum(x{1,11})))
    (sum(sum(x{1,12})))
    (sum(sum(x{2,1}))) (sum(sum(x{2,2})))
    (sum(sum(x{2,3}))) (sum(sum(x{2,4}))) (sum(sum(x{2,5})))
    (sum(sum(x{2,6}))) (sum(sum(x{2,7}))) (sum(sum(x{2,8})))
    (sum(sum(x{2,9}))) (sum(sum(x{2,10}))) (sum(sum(x{2,11})))
    (sum(sum(x{2,12})))
    (sum(sum(x{3,1}))) (sum(sum(x{3,2})))
    (sum(sum(x{3,3}))) (sum(sum(x{3,4}))) (sum(sum(x{3,5})))
    (sum(sum(x{3,6}))) (sum(sum(x{3,7}))) (sum(sum(x{3,8})))
    (sum(sum(x{3,9}))) (sum(sum(x{3,10}))) (sum(sum(x{3,11})))
    (sum(sum(x{3,12})))
    (sum(sum(x{4,1}))) (sum(sum(x{4,2})))
    (sum(sum(x{4,3}))) (sum(sum(x{4,4}))) (sum(sum(x{4,5})))
    (sum(sum(x{4,6}))) (sum(sum(x{4,7}))) (sum(sum(x{4,8})))
    (sum(sum(x{4,9}))) (sum(sum(x{4,10}))) (sum(sum(x{4,11})))
    (sum(sum(x{4,12})))
    (sum(sum(x{5,1}))) (sum(sum(x{5,2})))
    (sum(sum(x{5,3}))) (sum(sum(x{5,4}))) (sum(sum(x{5,5})))
    (sum(sum(x{5,6}))) (sum(sum(x{5,7}))) (sum(sum(x{5,8})))
    (sum(sum(x{5,9}))) (sum(sum(x{5,10}))) (sum(sum(x{5,11})))
    (sum(sum(x{5,12})))
    (sum(sum(x{6,1}))) (sum(sum(x{6,2})))
    (sum(sum(x{6,3}))) (sum(sum(x{6,4}))) (sum(sum(x{6,5})))
    (sum(sum(x{6,6}))) (sum(sum(x{6,7}))) (sum(sum(x{6,8})))
    (sum(sum(x{6,9}))) (sum(sum(x{6,10}))) (sum(sum(x{6,11})))
    (sum(sum(x{6,12})))
    (sum(sum(x{7,1}))) (sum(sum(x{7,2})))
    (sum(sum(x{7,3}))) (sum(sum(x{7,4}))) (sum(sum(x{7,5})))
    (sum(sum(x{7,6}))) (sum(sum(x{7,7}))) (sum(sum(x{7,8})))
(\sum(\sum(x_{7,9}))) (\sum(\sum(x_{7,10}))) (\sum(\sum(x_{7,11})))
(\sum(\sum(x_{7,12})))
\quad; (\sum(\sum(x_{8,1}))) (\sum(\sum(x_{8,2})))
(\sum(\sum(x_{8,3}))) (\sum(\sum(x_{8,4}))) (\sum(\sum(x_{8,5})))
(\sum(\sum(x_{8,6}))) (\sum(\sum(x_{8,7}))) (\sum(\sum(x_{8,8})))
(\sum(\sum(x_{8,9}))) (\sum(\sum(x_{8,10}))) (\sum(\sum(x_{8,11})))
(\sum(\sum(x_{8,12})))
\quad; (\sum(\sum(x_{9,1}))) (\sum(\sum(x_{9,2})))
(\sum(\sum(x_{9,3}))) (\sum(\sum(x_{9,4}))) (\sum(\sum(x_{9,5})))
(\sum(\sum(x_{9,6}))) (\sum(\sum(x_{9,7}))) (\sum(\sum(x_{9,8})))
(\sum(\sum(x_{9,9}))) (\sum(\sum(x_{9,10}))) (\sum(\sum(x_{9,11})))
(\sum(\sum(x_{9,12})))
\quad; (\sum(\sum(x_{10,1}))) (\sum(\sum(x_{10,2})))
(\sum(\sum(x_{10,3}))) (\sum(\sum(x_{10,4}))) (\sum(\sum(x_{10,5})))
(\sum(\sum(x_{10,6}))) (\sum(\sum(x_{10,7}))) (\sum(\sum(x_{10,8})))
(\sum(\sum(x_{10,9}))) (\sum(\sum(x_{10,10}))) (\sum(\sum(x_{10,11})))
(\sum(\sum(x_{10,12})))
\quad; (\sum(\sum(x_{11,1}))) (\sum(\sum(x_{10,2})))
(\sum(\sum(x_{11,3}))) (\sum(\sum(x_{11,4}))) (\sum(\sum(x_{11,5})))
(\sum(\sum(x_{11,6}))) (\sum(\sum(x_{11,7}))) (\sum(\sum(x_{11,8})))
(\sum(\sum(x_{11,9}))) (\sum(\sum(x_{11,10}))) (\sum(\sum(x_{11,11})))
(\sum(\sum(x_{11,12})))
\quad; (\sum(\sum(x_{12,1}))) (\sum(\sum(x_{10,2})))
(\sum(\sum(x_{12,3}))) (\sum(\sum(x_{12,4}))) (\sum(\sum(x_{12,5})))
(\sum(\sum(x_{12,6}))) (\sum(\sum(x_{12,7}))) (\sum(\sum(x_{12,8})))
(\sum(\sum(x_{12,9}))) (\sum(\sum(x_{12,10}))) (\sum(\sum(x_{12,11})))
(\sum(\sum(x_{12,12})))));
extract = extract/19;

%-----------------------kalo row dan kolom dijumlahkan juga-----
------
row = sum(extract)/12;
column = sum(extract')/12;
addition = [row(1,1) row(1,2) row(1,3) row(1,4) row(1,5) row(1,6)
row(1,7) row(1,8) row(1,9) row(1,10) row(1,11) row(1,12)
; column(1,1) column(1,2) column(1,3) column(1,4)
column(1,5) column(1,6) column(1,7) column(1,8) column(1,9)
column(1,10) column(1,11) column(1,12)];
total_extraction=[extract;addition];

------

for a=1:14
for b=1:12
if total_extraction(a,b)>=5
    total_extraction(a,b)=1;
elseif total_extraction(a,b)<5
    total_extraction(a,b)=0;
end
end
end

if n==1
    esheet = 'Sheet21';
elseif n==2
    esheet = 'Sheet22';
else n==3
    esheet = 'Sheet23';
end

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elseif n==4
esheet = 'Sheet24';

elseif n==5
esheet = 'Sheet25';

elseif n==6
esheet = 'Sheet26';

elseif n==7
esheet = 'Sheet27';

elseif n==8
esheet = 'Sheet28';

elseif n==9
esheet = 'Sheet29';

elseif n==10
esheet = 'Sheet30';

elseif n==11
esheet = 'Sheet31';

elseif n==12
esheet = 'Sheet32';

elseif n==13
esheet = 'Sheet33';

elseif n==14
esheet = 'Sheet34';

elseif n==15
esheet = 'Sheet35';

elseif n==16
esheet = 'Sheet36';

elseif n==17
esheet = 'Sheet37';

elseif n==18
esheet = 'Sheet38';

elseif n==19
esheet = 'Sheet39';

elseif n==20
esheet = 'Sheet40';
end

xlswrite([nama '.xlsx'],total_extraction,esheet,'A1:L14');

tampil(1)=handles.axes1;
tampil(2)=handles.axes2;
tampil(3)=handles.axes3;
tampil(4)=handles.axes4;
tampil(5)=handles.axes5;
tampil(6)=handles.axes6;
tampil(7)=handles.axes7;
tampil(8)=handles.axes8;
tampil(9)=handles.axes9;
tampil(10)=handles.axes10;
tampil(11)=handles.axes11;
tampil(12)=handles.axes12;
tampil(13)=handles.axes13;
tampil(14)=handles.axes14;
tampil(15)=handles.axes15;
tampil(16)=handles.axes16;
tampil(17)=handles.axes17;
tampil(18)=handles.axes18;
tampil(19)=handles.axes19;
tampil(20)=handles.axes20;

axes(tampil(n));
imshow(total_extraction);
end
set(handles.info,'string',
['Proses Ekstraksi ' nama ' Selesai']);
end
disp('selesai')
set(handles.info,'string','Proses Ekstraksi Selesai');

function Untitled_6_Callback(hObject, eventdata, handles)
    utama
    close program1;

function Untitled_7_Callback(hObject, eventdata, handles)
    bantuanpelatihan

uji.m (form pelatihan)
function varargout = uji(varargin)
gui_Singleton = 1;
gui_State = struct('gui_Name', ...'
    'gui_OpeningFcn', @uji_OpeningFcn, ...'
    'gui_Callback', []);
if nargin && ischar(varargin{1})
    gui_State.gui_Callback = str2func(varargin{1});
end
if nargout
    [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
    gui_mainfcn(gui_State, varargin{:});
end

% --- Executes just before uji is made visible.
function uji_OpeningFcn(hObject, eventdata, handles, varargin)
    clc

% Choose default command line output for uji

handles.output = hObject;

% Update handles structure
guidata(hObject, handles);

% --- Outputs from this function are returned to the command line.
function varargout = uji_OutputFcn(hObject, eventdata, handles)

% Get default command line output from handles structure
varargout{1} = handles.output;

% --- Executes on button press in buka.
function buka_Callback(hObject, eventdata, handles)
[nama_file,nama_path] = uigetfile({'*.jpg','File jpeg (*.jpg)'},'Buka File Citra');
if ~isequal(nama_file,0)
citra=imread(fullfile(nama_path,nama_file));
handles.citra=imresize(citra,[120 120]);
gray=rgb2gray(handles.citra);
thresh=graythresh(gray);
bw=im2bw(gray,thresh);
bagi = bw;
x=mat2cell(bagi, [10 10 10 10 10 10 10 10 10 10 10 10], [10 10 10 10 10 10 10 10 10 10 10 10]);
extract=[(sum(sum(x{1,1}))) (sum(sum(x{1,2})))
(sum(sum(x{1,3}))) (sum(sum(x{1,4}))) (sum(sum(x{1,5})))
(sum(sum(x{1,6}))) (sum(sum(x{1,7}))) (sum(sum(x{1,8})))
(sum(sum(x{1,9}))) (sum(sum(x{1,10}))) (sum(sum(x{1,11})))
(sum(sum(x{1,12})))
;(sum(sum(x{2,1}))) (sum(sum(x{2,2})))
(sum(sum(x{2,3}))) (sum(sum(x{2,4}))) (sum(sum(x{2,5})))
(sum(sum(x{2,6}))) (sum(sum(x{2,7}))) (sum(sum(x{2,8})))
(sum(sum(x{2,9}))) (sum(sum(x{2,10}))) (sum(sum(x{2,11})))
(sum(sum(x{2,12})))
;(sum(sum(x{3,1}))) (sum(sum(x{3,2})))
(sum(sum(x{3,3}))) (sum(sum(x{3,4}))) (sum(sum(x{3,5})))
(sum(sum(x{3,6}))) (sum(sum(x{3,7}))) (sum(sum(x{3,8})))
(sum(sum(x{3,9}))) (sum(sum(x{3,10}))) (sum(sum(x{3,11})))
(sum(sum(x{3,12})))
;(sum(sum(x{4,1}))) (sum(sum(x{4,2})))
(sum(sum(x{4,3}))) (sum(sum(x{4,4}))) (sum(sum(x{4,5})))
(sum(sum(x{4,6}))) (sum(sum(x{4,7}))) (sum(sum(x{4,8})))
(sum(sum(x{4,9}))) (sum(sum(x{4,10}))) (sum(sum(x{4,11})))
(sum(sum(x{4,12})))
;(sum(sum(x{5,1}))) (sum(sum(x{5,2})))
(sum(sum(x{5,3}))) (sum(sum(x{5,4}))) (sum(sum(x{5,5})))
(sum(sum(x{5,6}))) (sum(sum(x{5,7}))) (sum(sum(x{5,8})))
(sum(sum(x{5,9}))) (sum(sum(x{5,10}))) (sum(sum(x{5,11})))
(sum(sum(x{5,12})))
;(sum(sum(x{6,1}))) (sum(sum(x{6,2})))
(sum(sum(x{6,3}))) (sum(sum(x{6,4}))) (sum(sum(x{6,5})))
(sum(sum(x{6,6}))) (sum(sum(x{6,7}))) (sum(sum(x{6,8})))
(sum(sum(x{6,9}))) (sum(sum(x{6,10}))) (sum(sum(x{6,11})))
(sum(sum(x{6,12})))
;(sum(sum(x{7,1}))) (sum(sum(x{7,2})))
(sum(sum(x{7,3}))) (sum(sum(x{7,4}))) (sum(sum(x{7,5})))
(sum(sum(x{7,6}))) (sum(sum(x{7,7}))) (sum(sum(x{7,8})))
(\sum(\sum(x(7,9)))) \ (\sum(\sum(x(7,10)))) \ (\sum(\sum(x(7,11))))
(\sum(\sum(x(7,12))))
; (\sum(\sum(x(8,1)))) \ (\sum(\sum(x(8,2))))
(\sum(\sum(x(8,3)))) \ (\sum(\sum(x(8,4)))) \ (\sum(\sum(x(8,5))))
(\sum(\sum(x(8,6)))) \ (\sum(\sum(x(8,7)))) \ (\sum(\sum(x(8,8))))
(\sum(\sum(x(8,9)))) \ (\sum(\sum(x(8,10)))) \ (\sum(\sum(x(8,11))))
(\sum(\sum(x(8,12))))
; (\sum(\sum(x(9,1)))) \ (\sum(\sum(x(9,2))))
(\sum(\sum(x(9,3)))) \ (\sum(\sum(x(9,4)))) \ (\sum(\sum(x(9,5))))
(\sum(\sum(x(9,6)))) \ (\sum(\sum(x(9,7)))) \ (\sum(\sum(x(9,8))))
(\sum(\sum(x(9,9)))) \ (\sum(\sum(x(9,10)))) \ (\sum(\sum(x(9,11))))
(\sum(\sum(x(9,12))))
; (\sum(\sum(x(10,1)))) \ (\sum(\sum(x(10,2))))
(\sum(\sum(x(10,3)))) \ (\sum(\sum(x(10,4)))) \ (\sum(\sum(x(10,5))))
(\sum(\sum(x(10,6)))) \ (\sum(\sum(x(10,7)))) \ (\sum(\sum(x(10,8))))
(\sum(\sum(x(10,9)))) \ (\sum(\sum(x(10,10)))) \ (\sum(\sum(x(10,11))))
(\sum(\sum(x(10,12))))
; (\sum(\sum(x(11,1)))) \ (\sum(\sum(x(10,2))))
(\sum(\sum(x(11,3)))) \ (\sum(\sum(x(11,4)))) \ (\sum(\sum(x(11,5))))
(\sum(\sum(x(11,6)))) \ (\sum(\sum(x(11,7)))) \ (\sum(\sum(x(11,8))))
(\sum(\sum(x(11,9)))) \ (\sum(\sum(x(11,10)))) \ (\sum(\sum(x(11,11))))
(\sum(\sum(x(11,12))))
; (\sum(\sum(x(12,1)))) \ (\sum(\sum(x(10,2))))
(\sum(\sum(x(12,3)))) \ (\sum(\sum(x(12,4)))) \ (\sum(\sum(x(12,5))))
(\sum(\sum(x(12,6)))) \ (\sum(\sum(x(12,7)))) \ (\sum(\sum(x(12,8))))
(\sum(\sum(x(12,9)))) \ (\sum(\sum(x(12,10)))) \ (\sum(\sum(x(12,11))))
(\sum(\sum(x(12,12))))
)

extract = extract/19;

row = sum(extract)/12;
column = sum(extract')/12;
addition = [row(1,1) row(1,2) row(1,3) row(1,4) row(1,5) row(1,6)
row(1,7) row(1,8) row(1,9) row(1,10) row(1,11) row(1,12)
;column(1,1) column(1,2) column(1,3) column(1,4)
column(1,5) column(1,6) column(1,7) column(1,8) column(1,9)
column(1,10) column(1,11) column(1,12)];
total_extraction = [extract;addition];
for a=1:14
for b=1:12
if total_extraction(a,b)>=5
    total_extraction(a,b)=1;
elseif total_extraction(a,b)<5
    total_extraction(a,b)=-1;
end
end
end

xlswrite('nilai_uji.xlsx',total_extraction,'nilai','A1:L14');
else
    return;
end

% --- Executes on button press in uji.
function uji_Callback(hObject, eventdata, handles)
aksara = xlsread('nilai_uji.xlsx','nilai','A1:L14');
aksara = reshape(aksara,1,168);
bobot = xlsread('bobot.xlsx','totalbobot','A1:AE168');
hasil = [aksara*bobot];

hasil

if hasil(1,31) == max(hasil)
    set(handles.text1,'string','A');
elseif hasil(1,30) == max(hasil)
    set(handles.text1,'string','KA');
elseif hasil(1,29) == max(hasil)
    set(handles.text1,'string','BA');
elseif hasil(1,28) == max(hasil)
    set(handles.text1,'string','PA');
elseif hasil(1,27) == max(hasil)
    set(handles.text1,'string','NA');
elseif hasil(1,26) == max(hasil)
    set(handles.text1,'string','WA');
elseif hasil(1,25) == max(hasil)
    set(handles.text1,'string','GA');
elseif hasil(1,24) == max(hasil)
    set(handles.text1,'string','JA');
elseif hasil(1,23) == max(hasil)
    set(handles.text1,'string','DA');
elseif hasil(1,22) == max(hasil)
    set(handles.text1,'string','RA');
elseif hasil(1,21) == max(hasil)
    set(handles.text1,'string','MA');
elseif hasil(1,20) == max(hasil)
    set(handles.text1,'string','TA');
elseif hasil(1,19) == max(hasil)
    set(handles.text1,'string','SA');
elseif hasil(1,18) == max(hasil)
    set(handles.text1,'string','YA');
elseif hasil(1,17) == max(hasil)
    set(handles.text1,'string','NGA');
elseif hasil(1,16) == max(hasil)
    set(handles.text1,'string','LA');
elseif hasil(1,15) == max(hasil)
    set(handles.text1,'string','CA');
elseif hasil(1,14) == max(hasil)
    set(handles.text1,'string','NDA');
elseif hasil(1,13) == max(hasil)
    set(handles.text1,'string','MBA');
elseif hasil(1,12) == max(hasil)
    set(handles.text1,'string','I');
elseif hasil(1,11) == max(hasil)
    set(handles.text1,'string','U');
elseif hasil(1,10) == max(hasil)
    set(handles.text1,'string','1');
elseif hasil(1,9) == max(hasil)
    set(handles.text1,'string','2');
elseif hasil(1,8) == max(hasil)
    set(handles.text1,'string','3');
elseif hasil(1,7) == max(hasil)
    set(handles.text1,'string','4');
elseif hasil(1,6) == max(hasil)
    set(handles.text1,'string','5');
elseif hasil(1,5) == max(hasil)
set(handles.text1,'string','6');
elseif hasil(1,4) == max(hasil)
    set(handles.text1,'string','7');
elseif hasil(1,3) == max(hasil)
    set(handles.text1,'string','8');
elseif hasil(1,2) == max(hasil)
    set(handles.text1,'string','9');
elseif hasil(1,1) == max(hasil)
    set(handles.text1,'string','0');
else
    set(handles.text1,'string','GAGAL');
end

% --- Executes on button press in pushbutton3.
function pushbutton3_Callback(hObject, eventdata, handles)
counter = 1;
hitung = 0;
benar = 0;
for m=1:31
    for n=1:20
        if n==1
            esheet = 'Sheet21';
        elseif n==2
            esheet = 'Sheet22';
        elseif n==3
            esheet = 'Sheet23';
        elseif n==4
            esheet = 'Sheet24';
        elseif n==5
            esheet = 'Sheet25';
        elseif n==6
            esheet = 'Sheet26';
        elseif n==7
            esheet = 'Sheet27';
        elseif n==8
            esheet = 'Sheet28';
        elseif n==9
            esheet = 'Sheet29';
        elseif n==10
            esheet = 'Sheet30';
        elseif n==11
            esheet = 'Sheet31';
        elseif n==12
            esheet = 'Sheet32';

elseif n==13
    esheet = 'Sheet33';
elseif n==14
    esheet = 'Sheet34';
elseif n==15
    esheet = 'Sheet35';
elseif n==16
    esheet = 'Sheet36';
elseif n==17
    esheet = 'Sheet37';
elseif n==18
    esheet = 'Sheet38';
elseif n==19
    esheet = 'Sheet39';
elseif n==20
    esheet = 'Sheet40';
end

if m==1
    aksara = xlsread('a.xlsx',esheet,'A1:L14');
    nama='a';
elseif m==2
    aksara = xlsread('ka.xlsx',esheet,'A1:L14');
    nama='ka';
elseif m==3
    aksara = xlsread('ba.xlsx',esheet,'A1:L14');
    nama='ba';
elseif m==4
    aksara = xlsread('pa.xlsx',esheet,'A1:L14');
    nama='pa';
elseif m==5
    aksara = xlsread('na.xlsx',esheet,'A1:L14');
    nama='na';
elseif m==6
    aksara = xlsread('wa.xlsx',esheet,'A1:L14');
    nama='wa';
elseif m==7
    aksara = xlsread('ga.xlsx',esheet,'A1:L14');
    nama='ga';
elseif m==8
    aksara = xlsread('ja.xlsx',esheet,'A1:L14');
    nama='ja';
elseif m==9
    aksara = xlsread('da.xlsx',esheet,'A1:L14');
    nama='da';
elseif m==10
    aksara = xlsread('ra.xlsx',esheet,'A1:L14');
    nama='ra';
elseif m==11
    aksara = xlsread('ma.xlsx',esheet,'A1:L14');
nama='ma';
elseif m==12
aksara = xlsread('ta.xlsx',esheet,'A1:L14');
nama='ta';
elseif m==13
aksara = xlsread('sa.xlsx',esheet,'A1:L14');
nama='sa';
elseif m==14
aksara = xlsread('ya.xlsx',esheet,'A1:L14');
nama='ya';
elseif m==15
aksara = xlsread('nga.xlsx',esheet,'A1:L14');
nama='nga';
elseif m==16
aksara = xlsread('la.xlsx',esheet,'A1:L14');
nama='la';
elseif m==17
aksara = xlsread('ca.xlsx',esheet,'A1:L14');
nama='ca';
elseif m==18
aksara = xlsread('nda.xlsx',esheet,'A1:L14');
nama='nda';
elseif m==19
aksara = xlsread('mba.xlsx',esheet,'A1:L14');
nama='mba';
elseif m==20
aksara = xlsread('i.xlsx',esheet,'A1:L14');
nama='i';
elseif m==21
aksara = xlsread('u.xlsx',esheet,'A1:L14');
nama='u';
elseif m==22
aksara = xlsread('satu.xlsx',esheet,'A1:L14');
nama='satu';
elseif m==23
aksara = xlsread('dua.xlsx',esheet,'A1:L14');
nama='dua';
elseif m==24
aksara = xlsread('tiga.xlsx',esheet,'A1:L14');
nama='tiga';
elseif m==25
aksara = xlsread('empat.xlsx',esheet,'A1:L14');
nama='empat';
elseif m==26
aksara = xlsread('lima.xlsx',esheet,'A1:L14');
nama='lima';
elseif m==27
aksara = xlsread('enam.xlsx',esheet,'A1:L14');
nama='enam';
elseif m==28
aksara = xlsread('tujuh.xlsx',esheet,'A1:L14');
nama='tujuh';
elseif m==29
aksara = xlsread('delapan.xlsx',esheet,'A1:L14');
nama='delapan';
elseif m==30
aksara = xlsread('sembilan.xlsx',esheet,'A1:L14');
nama='sembilan';
elseif m==31
aksara = xlsread('nol.xlsx',esheet,'A1:L14');
nama='nol';
end

benar = benar+1;
ke(1,benar)=counter;

counterstr = num2str(counter);
disp([nama counterstr])
counter = counter+1;
if counter>20
    counter=counter-20;
end

namaks(1,benar)= m;

aksara = reshape(aksara,1,168);
for b=1:168
    if aksara(1,b)==0
        aksara(1,b)=-1;
    end
end

bobot  = xlsread('bobot.xlsx','totalbobot','A1:AE168');
hasil  = [aksara*bobot];

if hasil(1,31) == max(hasil) && m == 1
    disp('a')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
elseif hasil(1,30) == max(hasil) && m == 2
    disp('ka')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
elseif hasil(1,29) == max(hasil) && m == 3
    disp('ba')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
elseif hasil(1,28) == max(hasil) && m == 4
    disp('pa')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
elseif hasil(1,27) == max(hasil) && m == 5
    disp('na')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
elseif hasil(1,26) == max(hasil) && m == 6
    disp('wa')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
elseif hasil(1,25) == max(hasil) && m == 7
    disp('ga')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
elseif hasil(1,24) == max(hasil) && m == 8
    disp('ba')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
else
disp('ja')
hitung=hitung+1;
cekbenar(1,benar)='B';
elseif hasil(1,23) == max(hasil) && m == 9
disp('da')
hitung=hitung+1;
cekbenar(1,benar)='B';
elseif hasil(1,22) == max(hasil) && m == 10
disp('ta')
hitung=hitung+1;
cekbenar(1,benar)='B';
elseif hasil(1,21) == max(hasil) && m == 11
disp('ma')
hitung=hitung+1;
cekbenar(1,benar)='B';
elseif hasil(1,20) == max(hasil) && m == 12
disp('ta')
hitung=hitung+1;
cekbenar(1,benar)='B';
elseif hasil(1,19) == max(hasil) && m == 13
disp('sa')
hitung=hitung+1;
cekbenar(1,benar)='B';
elseif hasil(1,18) == max(hasil) && m == 14
disp('ya')
hitung=hitung+1;
cekbenar(1,benar)='B';
elseif hasil(1,17) == max(hasil) && m == 15
disp('nga')
hitung=hitung+1;
cekbenar(1,benar)='B';
elseif hasil(1,16) == max(hasil) && m == 16
disp('la')
hitung=hitung+1;
cekbenar(1,benar)='B';
elseif hasil(1,15) == max(hasil) && m == 17
disp('ca')
hitung=hitung+1;
cekbenar(1,benar)='B';
elseif hasil(1,14) == max(hasil) && m == 18
disp('nda')
hitung=hitung+1;
cekbenar(1,benar)='B';
elseif hasil(1,13) == max(hasil) && m == 19
disp('mba')
hitung=hitung+1;
cekbenar(1,benar)='B';
elseif hasil(1,12) == max(hasil) && m == 20
disp('i')
hitung=hitung+1;
cekbenar(1,benar)='B';
elseif hasil(1,11) == max(hasil) && m == 21
disp('u')
hitung=hitung+1;
cekbenar(1,benar)='B';
elseif hasil(1,10) == max(hasil) && m == 22
disp('i')
hitung=hitung+1;
cekbenar(1,benar)='B';
elseif hasil(1,9) == max(hasil) && m == 23
disp('2')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
elseif hasil(1,8) == max(hasil) & m == 24
disp('3')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
elseif hasil(1,7) == max(hasil) & m == 25
disp('4')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
elseif hasil(1,6) == max(hasil) & m == 26
disp('5')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
elseif hasil(1,5) == max(hasil) & m == 27
disp('6')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
elseif hasil(1,4) == max(hasil) & m == 28
disp('7')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
elseif hasil(1,3) == max(hasil) & m == 29
disp('8')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
elseif hasil(1,2) == max(hasil) & m == 30
disp('9')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
elseif hasil(1,1) == max(hasil) & m == 31
disp('0')
    hitung=hitung+1;
    cekbenar(1,benar)='B';
else
disp('gagal')
    cekbenar(1,benar)='G';
end
%kesimpulan
disp('-------------------------------------')

cend
cekan;
cekan=cekan;
ke=ke';
namaks=namaks';
xlswrite('informasi.xlsx',namaks,'Sheet1','A1:A310')
xlswrite('informasi.xlsx',ke,'Sheet1','B1:B310')
xlswrite('informasi.xlsx',cekbenar,'Sheet1','C1:C310')
berhasil = hitung
persen_berhasil = (hitung/(m*n)*100)
set(handles.jumlah,'string',berhasil);
set(handles.persen,'string',persen_berhasil);
function Untitled_1_Callback(hObject, eventdata, handles)
function Untitled_2_Callback(hObject, eventdata, handles)
bantuanpengujian

function Untitled_3_Callback(hObject, eventdata, handles)
close uji;

function jumlah_CreateFcn(hObject, eventdata, handles)

% --- Executes during object creation, after setting all properties.
function tentang_OpeningFcn(hObject, eventdata, handles, varargin)
handles.output = hObject;

function varargout = tentang_OutputFcn(hObject, eventdata, handles)

% --- Executes just before tentang is made visible.
function tentang_OpeningFcn(hObject, eventdata, handles, varargin)
handles.output = hObject;

function Untitled_1_Callback(hObject, eventdata, handles)
close tentang;

function varargout = tentang_OutputFcn(hObject, eventdata, handles)

% --- Outputs from this function are returned to the command line.
function varargout = tentang_OpeningFcn(hObject, eventdata, handles)

% Get default command line output from handles structure
varargout{1} = handles.output;

function Untitled_1_Callback(hObject, eventdata, handles)
close tentang;

utama

function Untitled_2_Callback(hObject, eventdata, handles)
bantuanpengujian

close uji;

function Untitled_3_Callback(hObject, eventdata, handles)
close uji;

% --- Executes during object creation, after setting all properties.
function jumlah_CreateFcn(hObject, eventdata, handles)
bantuanpelatihan.m (form bantuan pelatihan)

function varargout = bantuanpelatihan(varargin)

gui_Singleton = 1;
gui_State = struct('gui_Name', mfilename, ...
    'gui_Singleton', gui_Singleton, ...
    'gui_OpeningFcn', @bantuanpelatihan_OpeningFcn, ...
    'gui_OutputFcn', @bantuanpelatihan_OutputFcn, ...
    'gui_LayoutFcn', [], ...
    'gui_Callback', []);

if nargin && ischar(varargin{1})
    gui_State.gui_Callback = str2func(varargin{1});
end

if nargout
    [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
    gui_mainfcn(gui_State, varargin{:});
end

function bantuanpelatihan_OpeningFcn(hObject, eventdata, handles, varargin)

handles.output = hObject;

% Update handles structure
guidata(hObject, handles);

% --- Outputs from this function are returned to the command line.
function varargout = bantuanpelatihan_OutputFcn(hObject, eventdata, handles)

varargout{1} = handles.output;

% --- Executes during object creation, after setting all properties.
function edit1_CreateFcn(hObject, eventdata, handles)

% --- Executes on slider movement.
function edit1_Callback(hObject, eventdata, handles)

textValue = str2num( get(editHandle,'String'))
set(sliderHandle,'Value',textValue)

% --- Executes during object creation, after setting all properties.
function slider4_CreateFcn(hObject, eventdata, handles)

sliderValue = num2str( get(slider4.handles,'Value'))
set(editHandle,'Value',sliderValue)

if isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor',[.9 .9 .9]);
end

function edit2_Callback(hObject, eventdata, handles)

% --- Executes during object creation, after setting all properties.
function edit2_CreateFcn(hObject, eventdata, handles)

Universitas Sumatera Utara
function edit2_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
set(hObject,'BackgroundColor','white');
end

function edit3_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
set(hObject,'BackgroundColor','white');
end

function edit4_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
set(hObject,'BackgroundColor','white');
end

function edit5_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
set(hObject,'BackgroundColor','white');
end

function Untitled_1_Callback(hObject, eventdata, handles)
close bantuanpelatihan;

bantuanpengujian.m (form bantuan pengujian)
function varargout = bantuanpengujian(varargin)

if nargin && ischar(varargin{1})
    gui_State.gui_Callback = str2func(varargin{1});
end

if nargout
    [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
gui_mainfcn(gui_State, varargin{:});
end

function bantuanpengujian_OpeningFcn(hObject, eventdata, handles, varargin)
handles.output = hObject;
% Update handles structure
guidata(hObject, handles);

function varargout = bantuanpengujian_OutputFcn(hObject, eventdata, handles)
varargout{1} = handles.output;

function edit1_Callback(hObject, eventdata, handles)
% --- Executes during object creation, after setting all properties.
function edit1_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function Untitled_1_Callback(hObject, eventdata, handles)
close bantuanpengujian;
CURRICULUM VITAE

Nama : Jakup Ginting
Alamat Sekarang : Jl. Raharja Gg. Sehati No.22 Tanjung Sari
Alamat Orang tua : Jl. Nusa Indah No.23 Kabanjahe
Telp/Hp : 085270625692
Email : gins.d.jack@gmail.com

Riwayat Pendidikan
2009-2013 : S1 Ilmu Komputer Universitas Sumatera Utara, Medan
2006-2009 : SMA Negeri 1 Kabanjahe
2003-2006 : SMP RK Sint Xaverius 1 Kabanjahe
1997-2003 : SD Sint Yoseph Kabanjahe

Keahlian/Kursus yang diikuti
Pemrograman Komputer
LAMPIRAN CITRA AKSARA KARO

Citra Yang Dilatih

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