function varargout = menu_utama(varargin)
% MENU_UTAMA M-file for menu_utama.fig
% _MENU_UTAMA, by itself, creates a new MENU_UTAMA or raises the
% existing
% singleton*.
% H = MENU_UTAMA returns the handle to a new MENU_UTAMA or the
% handle to
% the existing singleton*.
% MENU_UTAMA('CALLBACK',hObject,eventData,handles,...) calls the
local
% function named CALLBACK in MENU_UTAMA.M with the given input
arguments.
% MENU_UTAMA('Property','Value',...) creates a new MENU_UTAMA or
raises the
% existing singleton*. Starting from the left, property value
pairs are
% applied to the GUI before menu_utama_OpeningFcn gets called.
An
% unrecognized property name or invalid value makes property
application
% stop. All inputs are passed to menu_utama_OpeningFcn via
varargin.
% *See GUI Options on GUIDE's Tools menu. Choose "GUI allows
only one
% instance to run (singleton)".
% See also: GUIDE, GUIDATA, GUIHANDLES
% Edit the above text to modify the response to help menu_utama
% Last Modified by GUIDE v2.5 26-Mar-2012 22:30:32
% Begin initialization code - DO NOT EDIT
gui_Singleton = 1;
gui_State = struct('gui_Name', mfilename, ...
  'gui_Singleton', gui_Singleton, ...
  'gui_OpeningFcn', @menu_utama_OpeningFcn, ...
  'gui_OutputFcn', @menu_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
% End initialization code - DO NOT EDIT
% --- Executes just before menu_utama is made visible.
function menu_utama_OpeningFcn(hObject, eventdata, handles, varargin)
% This function has no output args, see OutputFcn.
% hObject handle to figure
% eventdata reserved - to be defined in a future version of MATLAB
% handles structure with handles and user data (see GUIDATA)
% varargin command line arguments to menu_utama (see VARARGIN)

% Choose default command line output for menu_utama
handles.output = hObject;
% Update handles structure
guidata(hObject, handles);
% UIWAIT makes menu_utama wait for user response (see UIRESUME)
% uiwait(handles.figure1);

% --- Outputs from this function are returned to the command line.
function varargout = menu_utama_OutputFcn(hObject, eventdata, handles)
% varargout  cell array for returning output args (see VARARGOUT);
% hObject    handle to figure
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

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

% --- Executes on button press in exit.
function exit_Callback(hObject, eventdata, handles)
selection = questdlg(['Keluar ' get(handles.figure1,'name') '?

?'],['Keluar ' get(handles.figure1,'name') '...','Ya','Tidak','Ya']);
if strcmp(selection,'Tidak')
    return;
end;
delete(handles.figure1);
% hObject    handle to exit (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

% --- Executes on button press in enkrip1.
function enkrip1_Callback(hObject, eventdata, handles)
fileencryption
% hObject    handle to enkrip1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

% --- Executes on button press in enkrip2.
function enkrip2_Callback(hObject, eventdata, handles)
encryption
% hObject    handle to enkrip2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

% --- Executes on button press in help.
function help_Callback(hObject, eventdata, handles)
help
% hObject    handle to help (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

2. Tampilan halaman untuk enkripsi dan dekripsi file *.txt
(fileencryption.m)

function varargout = fileencryption(varargin)
% FILEENCRYPTION M_EDT-file for fileencryption.fig
% FILEENCRYPTION, by itself, creates a edt new FILEENCRYPTION or
% raises the existing
% singleton*.
% H = FILEENCRYPTION returns the handle to a new FILEENCRYPTION or the handle to
% the existing singleton*.
% FILEENCRYPTION('CALLBACK', hObject, eventdata, handles,...) calls
% the local
% function named CALLBACK in FILEENCRYPTION.M_EDT with the given
% input arguments.
% FILEENCRYPTION('Property', 'Value', ...) creates a new FILEENCRYPTION or raises the
% existing singleton*. Starting from the left, property value
% pairs are
% applied to the GUI before fileencryption_OpeningFcn gets
called. An
% unrecognized property name or invalid value makes property
% application
% stop. All inputs are passed to fileencryption_OpeningFcn via
% varargin.
% "See GUI Options on GUIDE's Tools menu. Choose "GUI allows
% only one
% instance to run (singleton)"."
% See also: GUIDE, GUIDATA, GUIHANDLES
% Edit the above text to modify the response to help fileencryption
% Last Modified by GUIDE v2.5 30-Mar-2012 22:12:55
% Begin initialization code - DO NOT EDIT
gui_Singleton = 1;
gui_State = struct('gui_Name', mfilename, ...
    'gui_Singleton', gui_Singleton, ...
    'gui_OpeningFcn', @fileencryption_OpeningFcn, ...
    'gui_OutputFcn', @fileencryption_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
% End initialization code - DO NOT EDIT

% --- Executes just before fileencryption is made visible.
function fileencryption_OpeningFcn(hObject, eventdata, handles, varargin)
% This function has no output args, see OutputFcn.
% hObject    handle to figure
% eventdata   reserved - to be defined in a future version of
%             MATLAB
% handles    structure with handles and user data (see GUIDATA)
% varargin   command line arguments to fileencryption (see VARARGIN)
% Choose default command line output for fileencryption
% handles.output = hObject;
% Update handles structure
% guidata(hObject, handles);
% UIWAIT makes fileencryption wait for user response (see UIRESUME)
% uiwait(handles.figure1);

% --- Outputs from this function are returned to the command line.
function varargout = fileencryption_OutputFcn(hObject, eventdata, handles)
% varargout  cell array for returning output args (see VARARGOUT);
% hObject    handle to figure
% eventdata  reserved - to be defined in a_edt future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Get default command line output from handles structure
varargout{1} = handles.output;

function path_Callback(hObject, eventdata, handles)
% hObject    handle to path (see GCBO)
% eventdata  reserved - to be defined in a_edt future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of path as text
%       str2double(get(hObject,'String')) returns contents of path as a_edt double

% --- Executes during object creation, after setting all properties.
function path_CreateFcn(hObject, eventdata, handles)
% hObject    handle to path (see GCBO)
% eventdata  reserved - to be defined in a_edt future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a_edt white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function key_Callback(hObject, eventdata, handles)
% hObject    handle to key (see GCBO)
% eventdata  reserved - to be defined in a_edt future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of key as text
%       str2double(get(hObject,'String')) returns contents of key as a_edt double

% --- Executes during object creation, after setting all properties.
function key_CreateFcn(hObject, eventdata, handles)
% hObject    handle to key (see GCBO)
% eventdata  reserved - to be defined in a_edt future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a_edt white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
% --- Executes on button press in back.
function back_Callback(hObject, eventdata, handles)

% hObject    handle to back (see GCBO)
% eventdata  reserved - to be defined in a _edt future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

% --- Executes on button press in next.
function next_Callback(hObject, eventdata, handles)

% hObject    handle to next (see GCBO)
% eventdata  reserved - to be defined in a _edt future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

function cipher_Callback(hObject, eventdata, handles)

% hObject    handle to cipher (see GCBO)
% eventdata  reserved - to be defined in a _edt future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of cipher as text
%        str2double(get(hObject,'String')) returns contents of cipher as a _edt double

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

% hObject    handle to cipher (see GCBO)
% eventdata  reserved - to be defined in a _edt future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a _edt white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
                   get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function xo_edt_Callback(hObject, eventdata, handles)
Xo = str2num(get(handles.xo_edt,'String'));
handles.Xo = Xo;
user_entry = str2double(get(hObject,'string'));
if isnan(user_entry)
    errordlg('Inputan harus bertipe numerik!','Input Salah','modal')
    return
end
guidata(hObject,handles);                            %update handles

% --- Executes on button press in xo_edt.
function xo_edt_Callback(hObject, eventdata, handles)

% hObject    handle to xo_edt (see GCBO)
% eventdata  reserved - to be defined in a _edt future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of xo_edt as text
%        str2double(get(hObject,'String')) returns contents of xo_edt as a _edt double
% --- Executes during object creation, after setting all properties.
function xo_edt_CreateFcn(hObject, eventdata, handles)
% hObject    handle to xo_edt (see GCBO)
function a_edt_Callback(hObject, eventdata, handles)
a = str2num(get(handles.a_edt,'String'));
handles.a = a;
user_entry = str2double(get(hObject,'string'));
if isnan(user_entry)
    errordlg('Inputan harus bertipe numerik!','Input Salah','modal')
    return
end
guidata(hObject,handles);

function b_edt_Callback(hObject, eventdata, handles)
b = str2num(get(handles.b_edt,'String'));
handles.b = b;
user_entry = str2double(get(hObject,'string'));
if isnan(user_entry)
    errordlg('Inputan harus bertipe numerik!','Input Salah','modal')
    return
end
guidata(hObject,handles);

function a_edt_CreateFcn(hObject, eventdata, handles)
 hObject    handle to a_edt (see GCBO)
 eventdata  reserved - to be defined in a_edt future version of
 MATLAB
 handles    empty - handles not created until after all CreateFcns
called
 % Hint: edit controls usually have a_edt white background on Windows.
 % See ISPC and COMPUTER.
 if ispc && isequal(get(hObject,'BackgroundColor'),
 get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white')
 end

function b_edt_CreateFcn(hObject, eventdata, handles)
 hObject    handle to b_edt (see GCBO)
 eventdata  reserved - to be defined in a_edt future version of
 MATLAB
 handles    empty - handles not created until after all CreateFcns
called
 % Hint: edit controls usually have a_edt white background on Windows.
 % See ISPC and COMPUTER.
 if ispc && isequal(get(hObject,'BackgroundColor'),
 get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white')
 end

% --- Executes during object creation, after setting all properties.  
function a_edt_CreateFcn(hObject, eventdata, handles)
 hObject    handle to a_edt (see GCBO)
 eventdata  reserved - to be defined in a_edt future version of
 MATLAB
 handles    empty - handles not created until after all CreateFcns
called
 %Hint: edit controls usually have a_edt white background on Windows.
 % See ISPC and COMPUTER.
 % hObject    handle to a_edt (see GCBO)
 % eventdata  reserved - to be defined in a_edt future version of
 % MATLAB
 % handles    structure with handles and user data (see GUIDATA)
 % Hints: get(hObject,'String') returns contents of a_edt as text
 %        str2double(get(hObject,'String')) returns contents of a_edt
 % as a_edt double

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

function b_edt_CreateFcn(hObject, eventdata, handles)
 hObject    handle to b_edt (see GCBO)
 eventdata  reserved - to be defined in a_edt future version of
 MATLAB
 handles    empty - handles not created until after all CreateFcns
called
 % Hint: edit controls usually have a_edt white background on Windows.
 % See ISPC and COMPUTER.

% eventdata reserved - to be defined in a_edt future version of MATLAB
% handles structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of b_edt as text
% str2double(get(hObject,'String')) returns contents of b_edt as a_double

% --- Executes during object creation, after setting all properties.
function b_edt_CreateFcn(hObject, eventdata, handles)
    hObject    handle to b_edt (see GCBO)
    eventdata  reserved - to be defined in a_edt future version of MATLAB
    handles    structure with handles and user data (see GUIDATA)
    % Hint: edit controls usually have a_edt white background on Windows.
    % See ISPC and COMPUTER.
    if ispc && isequal(get(hObject,'BackgroundColor'),
        get(0,'defaultUicontrolBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end

    function m_edt_Callback(hObject, eventdata, handles)
        m = str2num(get(handles.m_edt,'String'));
        handles.m = m;
        user_entry = str2double(get(hObject,'string'));
        if isnan(user_entry)
            errordlg('Inputan harus bertipe numerik!','Input Salah','modal')
        return
    end

guidata(hObject,handles);

% hObject    handle to m_edt (see GCBO)
% eventdata  reserved - to be defined in a_edt future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of m_edt as text
% str2double(get(hObject,'String')) returns contents of m_edt as a_double

% --- Executes during object creation, after setting all properties.
function m_edt_CreateFcn(hObject, eventdata, handles)
    hObject    handle to m_edt (see GCBO)
    eventdata  reserved - to be defined in a_edt future version of MATLAB
    handles    structure with handles and user data (see GUIDATA)
    % Hint: edit controls usually have a_edt white background on Windows.
    % See ISPC and COMPUTER.
    if ispc && isequal(get(hObject,'BackgroundColor'),
        get(0,'defaultUicontrolBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end

% --- Executes on button press in browse.
function browse_Callback(hObject, eventdata, handles)
    [nama_file,nama_path] = uigetfile({'*.txt','File txt(*.txt)'},'Buka File Teks');
    if isequal([nama_file,nama_path],[0,0])
        return;
       .guidata(hObject,handles);
    end
else
    guidata(hObject,handles);
end;
txtpath = fullfile(pwd, sprintf(nama_file));
set(handles.path,'string',txtpath);
guida(hObject,handles);

% hObject    handle to browse (see GCBO)
% eventdata  reserved - to be defined in a_edt future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)

% --- Executes on button press in properties.
function properties_Callback(hObject, eventdata, handles)
a = get(handles.path,'String');
 fid = fopen(a);
plain = fread(fid, '*char');                                    % baca dari file
plann = plain'
set(handles.isi,'String',plann);
jml = length(plain);                      % length plainteks
if jml>=1024
    errordlg('Karakter terlalu panjang! Maksimal hanya 1024
karakter','Persingkat Pesan','modal');
else
    set(handles.pjgfile,'String',jml);
    fclose(fid);                            % convert to ascii
    file_as = double(plain);
    set(handles.kode,'String',file_as);
end
guidata(hObject,handles);

% hObject    handle to properties (see GCBO)
% eventdata  reserved - to be defined in a_edt future version of
% MATLAB
% handles    structure with handles and user data (see GUIDATA)

% --- Executes on button press in kunci.
function kunci_Callback(hObject, eventdata, handles)
set(handles.xo_edt,'Enable','on');
set(handles.a_edt,'Enable','on');
set(handles.b_edt,'Enable','on');
set(handles.m_edt,'Enable','on');
set(handles.key,'Enable','on');
% hObject    handle to kunci (see GCBO)
% eventdata  reserved - to be defined in a_edt future version of
% MATLAB
% handles    structure with handles and user data (see GUIDATA)

% --- Executes on button press in simpankey.
function simpankey_Callback(hObject, eventdata, handles)
simpan = str2num(get(handles.key,'String'));  % ambil hrga input dr
{} & ubh jdi ke numerik
simpan2 = simpan';
[name,path] = uiputfile('random key file.txt','save key');
full = fullfile(path,name);
dlmwrite(full,simpan2,' ');
% --- Executes on button press in generate.
function generate_Callback(hObject, eventdata, handles)
Xo = handles.Xo;
a = handles.a;
b = handles.b;
m = handles.m;
plain = get(handles.isi,'String');
total = mod(a*Xo+b,m);
total1(1) = strread(num2str(total));          % Read formatted data from string
for i = 2:length(plain)
total1(i) = mod(a*total1(i - 1)+b,m);
end;
asc_key = mod(total1,256);               % convert to ascii
set(handles.key,'String',asc_key);
axes(handles.axes1); cla;                 % mendefinisikan axes
plot(asc_key),grid;
guidata(hObject, handles);
% hObject    handle to generate (see GCBO)
% eventdata  reserved - to be defined in a_edt future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

% --- Executes on button press in ulang.
function ulang_Callback(hObject, eventdata, handles)
set(handles.xo_edt,'String','');
set(handles.a_edt,'String','');
set(handles.b_edt,'String','');
set(handles.m_edt,'String','');
set(handles.key,'String','');
set(handles.cipher,'String','');
set(handles.as_cipher,'String','');
set(handles.dekr,'String','');
cla(handles.axes1,'reset');
guidata(hObject, handles);
% hObject    handle to ulang (see GCBO)
% eventdata  reserved - to be defined in a_edt future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

% --- Executes on button press in enkrip.
function enkrip_Callback(hObject, eventdata, handles)
plainn = get(handles.isi,'String');         % plainteks
ascii = double(plainn);                   % convert to ascii
ascii2 = ascii';
total1 = str2num(get(handles.key,'String'));
x = total1;
otp = ascii2(1:length(ascii2))+ x(1:length(x));
otp_mod = mod(otp,256);
set(handles.as_cipher,'String',otp_mod);   % nilai ascii cipher
guidata(hObject, handles);
% hObject    handle to enkrip (see GCBO)
% eventdata  reserved - to be defined in a_edt future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

% --- Executes on button press in pjgfile
function pjgfile_Callback(hObject, eventdata, handles)
% hObject    handle to pjgfile (see GCBO)
function pjgfile_CreateFcn(hObject, eventdata, handles)
    % hObject    handle to pjgfile (see GCBO)
    % eventdata  reserved - to be defined in a future version of MATLAB
    % handles    structure with handles and user data (see GUIDATA)
    % Hints: get(hObject,'String') returns contents of pjgfile as text
    % str2double(get(hObject,'String')) returns contents of pjgfile as a double

    % --- Executes during object creation, after setting all properties.

function kode_Callback(hObject, eventdata, handles)
    % hObject    handle to kode (see GCBO)
    % eventdata  reserved - to be defined in a future version of MATLAB
    % handles    structure with handles and user data (see GUIDATA)
    % Hints: get(hObject,'String') returns contents of kode as text
    % str2double(get(hObject,'String')) returns contents of kode as a double

function smpncipher_Callback(hObject, eventdata, handles)
    simpanc = str2num(get(handles.as_cipher,'String'));
    simpanc2 = simpanc';
    [name,path] = uiputfile('ciphertext file.txt','save cipher');
    full = fullfile(path,name);
    dlmwrite(full,simpanc2,' ');

function isi_Callback(hObject, eventdata, handles)
    % hObject    handle to isi (see GCBO)

function smpn_cipher_CreateFcn(hObject, eventdata, handles)
    % hObject    handle to smpn_cipher (see GCBO)
    % eventdata  reserved - to be defined in a future version of MATLAB
    % handles    structure with handles and user data (see GUIDATA)
function isi_CreateFcn(hObject, eventdata, handles)
% hObject    handle to isi (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of isi as text
% str2double(get(hObject,'String')) returns contents of isi as a double

% https://www.mathworks.com/matlabcentral/fileexchange/1890
% %% eventdata reserved - to be defined in a future version of MATLAB
% %% handles structure with handles and user data (see GUIDATA)
% %% Hints: get(hObject,'String') returns contents of isi as text
% str2double(get(hObject,'String')) returns contents of isi as a double

% --- Executes during object creation, after setting all properties.
function dekrip_Callback(hObject, eventdata, handles)
% hObject    handle to dekrip (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of dekrip as text
% str2double(get(hObject,'String')) returns contents of dekrip as a double

function as_cipher_Callback(hObject, eventdata, handles)
% hObject    handle to as_cipher (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of as_cipher as text
% str2double(get(hObject,'String')) returns contents of
% as_cipher as a double

% --- Executes during object creation, after setting all properties.
function as_cipher_CreateFcn(hObject, eventdata, handles)
% hObject    handle to as_cipher (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns
% called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

% --- Executes on button press in pushbutton14.
function pushbutton14_Callback(hObject, eventdata, handles)
b=1;  m=1;
if b == m
    while isprime(b)==0
        b=randint(1,1,[50,6000]);       %range b 50-6000
    end
    while isprime(m)==0
        m=randint(1,1,[500,60000]);     %range q 500-60000
    end
else
    return
end
set(handles.b_edt,'String',b);
set(handles.m_edt,'String',m);

3. Tampilan halaman untuk enkripsi dan dekripsi melalui inputan dari
   keyboard (encryption.m)

function varargout = encryption(varargin)
% ENCRYPTION M_ED-file for encryption.fig
% ENCRYPTION, by itself, creates a _ed new ENCRYPTION or raises
% the existing
% singleton*.
% H = ENCRYPTION returns the handle to a _ed new ENCRYPTION or
% the handle to
% the existing singleton*.
% ENCRYPTION('CALLBACK',hObject,eventData,handles,...) calls the
% local
% function named CALLBACK in ENCRYPTION.M_ED with the given
% input arguments.
%
ENCRIPTION('Property','Value',...) creates a new ENCRYPTION or raises the existing singleton*. Starting from the left, property value pairs are applied to the GUI before encryption_OpeningFcn gets called. An unrecognized property name or invalid value makes property application stop. All inputs are passed to encryption_OpeningFcn via varargin.

*See GUI Options on GUIDE's Tools menu. Choose "GUI allows only one instance to run (singleton)".

See also: GUIDE, GUIDATA, GUIDATA
Edit the above text to modify the response to help encryption
Last Modified by GUIDE v2.5 30-Mar-2012 21:24:43
Begin initialization code - DO NOT EDIT

```matlab
gui_Singleton = 1;
gui_State = struct('gui_Name', mfilename, ...
    'gui_Singleton', gui_Singleton, ...
    'gui_OpeningFcn', @encryption_OpeningFcn, ...
    'gui_OutputFcn', @encryption_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
% End initialization code - DO NOT EDIT

--- Executes just before encryption is made visible.
function encryption_OpeningFcn(hObject, eventdata, handles, varargin)
    % This function has no output args, see OutputFcn.
    % hObject    handle to figure
    % eventdata  reserved - to be defined in a future version of MATLAB
    % handles    structure with handles and user data (see GUIDATA)
    % varargin   command line arguments to encryption (see VARARGIN)
    % Choose default command line output for encryption handles.output = hObject;
    % Update handles structure
    guidata(hObject, handles);
    % UIWAIT makes encryption wait for user response (see UIRESUME)
    % uistack(handles.figure1);

--- Outputs from this function are returned to the command line.
function varargout = encryption_OutputFcn(hObject, eventdata, handles)
    % varargout    cell array for returning output args (see VARARGOUT);
    % hObject      handle to figure
    % eventdata    reserved - to be defined in a future version of MATLAB
    % handles      structure with handles and user data (see GUIDATA)
```
% Get default command line output from handles structure
varargout{1} = handles.output;

function path_Callback(hObject, eventdata, handles)
% hObject    handle to path (see GCBO)
% eventdata  reserved - to be defined in a ed future version of
% MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of path as text
%        str2double(get(hObject,'String')) returns contents of path
%        as a ed double

% --- Executes during object creation, after setting all properties.
function path_CreateFcn(hObject, eventdata, handles)
% hObject    handle to path (see GCBO)
% eventdata  reserved - to be defined in a ed future version of
% MATLAB
% handles    empty - handles not created until after all CreateFcns
called
% Hint: edit controls usually have a ed white background on Windows.
% See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function key_Callback(hObject, eventdata, handles)
% hObject    handle to key (see GCBO)
% eventdata  reserved - to be defined in a ed future version of
% MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of key as text
%        str2double(get(hObject,'String')) returns contents of key as
%        a ed double

% --- Executes during object creation, after setting all properties.
function key_CreateFcn(hObject, eventdata, handles)
% hObject    handle to key (see GCBO)
% eventdata  reserved - to be defined in a ed future version of
% MATLAB
% handles    empty - handles not created until after all CreateFcns
called
% Hint: edit controls usually have a ed white background on Windows.
% See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

% --- Executes on button press in back.
function back_Callback(hObject, eventdata, handles)
fileencryption
% hObject    handle to back (see GCBO)
% eventdata  reserved - to be defined in a ed future version of
% MATLAB
% handles    structure with handles and user data (see GUIDATA)
% --- Executes on button press in next.
function next_Callback(hObject, eventdata, handles)
% hObject    handle to next (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

function edit5_Callback(hObject, eventdata, handles)
% hObject    handle to edit5 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit5 as text
%        str2double(get(hObject,'String')) returns contents of edit5 as a double

% --- Executes during object creation, after setting all properties.
function edit5_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit5 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function cipher_Callback(hObject, eventdata, handles)
% hObject    handle to cipher (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of cipher as text
%        str2double(get(hObject,'String')) returns contents of cipher as a double

% --- Executes during object creation, after setting all properties.
function cipher_CreateFcn(hObject, eventdata, handles)
% hObject    handle to cipher (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

% --- Executes on button press in properties.
function properties_Callback(hObject, eventdata, handles)
plain = get(handles.inputkeyboard,'String');     % plainteks dari inputan keyboard
jml = length(plain); % pjg plainteks
if jml>=1024
    errordlg('Karakter terlalu panjang! Maksimal hanya 1024 karakter','Persingkat Pesan','modal');
else
    set(handles.pjgkar,'String',jml);
    asc = double(plain); % convert plainteks to ascii
    set(handles.kode,'String',asc);
end
guidata(hObject,handles);

% hObject    handle to properties (see GCBO)
% eventdata  reserved - to be defined in a ed future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

% --- Executes on button press in kunci.
function kunci_Callback(hObject, eventdata, handles)
set(handles.xo_ed,'Enable','on');
set(handles.a_ed,'Enable','on');
set(handles.b_ed,'Enable','on');
set(handles.m_ed,'Enable','on');
set(handles.key,'Enable','on');
% hObject    handle to kunci (see GCBO)
% eventdata  reserved - to be defined in a ed future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
function xo_ed_Callback(hObject, eventdata, handles)
Xo = str2num(get(handles.xo_ed,'String'));
handles.Xo = Xo;
user_entry = str2double(get(hObject,'string'));
if isnan(user_entry)
    errordlg('Inputan harus bertipe numerik!','Input Salah','modal')
    return
end
guidata(hObject,handles);

% hObject    handle to xo_ed (see GCBO)
% eventdata  reserved - to be defined in a ed future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of xo_ed as text
%        str2double(get(hObject,'String')) returns contents of xo_ed
%        as a ed double

% --- Executes during object creation, after setting all properties.
function xo_ed_CreateFcn(hObject, eventdata, handles)
% hObject    handle to xo_ed (see GCBO)
% eventdata  reserved - to be defined in a ed future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a ed white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function a_ed_Callback(hObject, eventdata, handles)
a = str2num(get(handles.a_ed,'String'));
handles.a = a;
user_entry = str2double(get(hObject,'string'));
if isnan(user_entry)
    errordlg('Inputan harus bertipe numerik!','Input Salah','modal')
    return
end
guidata(hObject,handles);
% hObject    handle to a_ed (see GCBO)
% eventdata  reserved - to be defined in a_ed future version of
% MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of a_ed as text
% str2double(get(hObject,'String')) returns contents of a_ed
% as a_ed double

% --- Executes during object creation, after setting all properties.
function a_ed_CreateFcn(hObject, eventdata, handles)
% hObject    handle to a_ed (see GCBO)
% eventdata  reserved - to be defined in a_ed future version of
% MATLAB
% handles    empty - handles not created until after all CreateFcns
called
% Hint: edit controls usually have a_ed white background on Windows.
% See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function b_ed_Callback(hObject, eventdata, handles)
b = str2num(get(handles.b_ed,'String'));
handles.b = b;
user_entry = str2double(get(hObject,'string'));
if isnan(user_entry)
    errordlg('Inputan harus bertipe numerik!','Input Salah','modal')
    return
end
guidata(hObject,handles);
% hObject    handle to b_ed (see GCBO)
% eventdata  reserved - to be defined in a_ed future version of
% MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of b_ed as text
% str2double(get(hObject,'String')) returns contents of b_ed
% as a_ed double

% --- Executes during object creation, after setting all properties.
function b_ed_CreateFcn(hObject, eventdata, handles)
% hObject    handle to b_ed (see GCBO)
% eventdata  reserved - to be defined in a_ed future version of
% MATLAB
% handles    empty - handles not created until after all CreateFcns
called
% Hint: edit controls usually have a_ed white background on Windows.
% See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
set(hObject,'BackgroundColor','white');

end

function m_ed_Callback(hObject, eventdata, handles)
m = str2num(get(handles.m_ed,'String'));
handles.m = m;
user_entry = str2double(get(hObject,'string'));
if isnan(user_entry)
    errordlg('Inputan harus bertipe numerik!','Input Salah','modal')
    return
end
guidata(hObject,handles);
% hObject    handle to m_ed (see GCBO)
% eventdata  reserved - to be defined in a ed future version of
% MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of m_ed as text
%        str2double(get(hObject,'String')) returns contents of m_ed
% as a ed double

% --- Executes during object creation, after setting all properties.
function m_ed_CreateFcn(hObject, eventdata, handles)
% hObject    handle to m_ed (see GCBO)
% eventdata  reserved - to be defined in a ed future version of
% MATLAB
% handles    empty - handles not created until after all CreateFcns
% called
% Hint: edit controls usually have a ed white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

% --- Executes on button press in generate.
function generate_Callback(hObject, eventdata, handles)
Xo = handles.Xo;
a = handles.a;
b = handles.b;
m = handles.m;
plain = get(handles.inputkeyboard,'String');
total = mod(a*Xo+b,m) ;
total1(1) = strread(num2str(total)) ;
% Read formatted data from string -- baca kunci pertama
for i = 2:length(plain)
total1(i) = mod(a*total1(i - 1)+b,m);
end ;
asc_key = mod(total1,256) ;                    % convert to ascii
set(handles.key,'String',asc_key);
axes(handles.axes1); cla ;                     % mendefenisikan axes
plot(asc_key),grid;
guidata(hObject, handles);
% hObject    handle to generate (see GCBO)
% eventdata  reserved - to be defined in a ed future version of
% MATLAB
% handles    structure with handles and user data (see GUIDATA)

% --- Executes on button press in smpn.
function smpn_Callback(hObject, eventdata, handles)
simpan = str2num(get(handles.key,'String'));
simpan2 = simpan';
[name,path] = uiputfile('random key.txt','save key');
full = fullfile(path,name);
dlmwrite(full,simpan2,' ');
% hObject handle to smpn (see GCBO)
% eventdata reserved - to be defined in a future version of MATLAB
% handles structure with handles and user data (see GUIDATA)

function enkripsi_Callback(hObject, eventdata, handles)
plain = get(handles.inputkeyboard,'String');
ascii = double(plain);
ascii2 = ascii';
total1 = str2num(get(handles.key,'String'));
x = total1;
otp = ascii2(1:length(ascii2))+ x(1:length(x));
otp_mod = mod(otp,256);
set(handles.as_cipher,'String',otp_mod);
guidata(hObject, handles);
% hObject handle to enkripsi (see GCBO)
% eventdata reserved - to be defined in a future version of MATLAB
% handles structure with handles and user data (see GUIDATA)

function ulang_Callback(hObject, eventdata, handles)
set(handles.xo_ed,'String','');
set(handles.a_ed,'String','');
set(handles.b_ed,'String','');
set(handles.m_ed,'String','');
set(handles.key,'String','');
set(handles.cipher,'String','');
set(handles.dekrip,'String','');
cla(handles.axes1,'reset');
guidata(hObject, handles);
% hObject handle to ulang (see GCBO)
% eventdata reserved - to be defined in a future version of MATLAB
% handles structure with handles and user data (see GUIDATA)

function savecipher_Callback(hObject, eventdata, handles)
simpan_cipher = str2num(get(handles.as_cipher,'String'));
simpan_cipher2=simpan_cipher';
[name,path] = uiputfile('ciphertext.txt','save cipher');
full = fullfile(path,name);
dlmwrite(full,simpan_cipher2,' ');
% hObject handle to savecipher (see GCBO)
% eventdata reserved - to be defined in a future version of MATLAB
% handles structure with handles and user data (see GUIDATA)

function dekripsi_Callback(hObject, eventdata, handles)
ciph = str2num(get(handles.as_cipher,'String'));
total1 = str2num(get(handles.key,'String'));
x = total1;
otp = cipher(1:length(cipher)) - x(1:length(x));
otp_mod = mod(otp,256);
otp_dekripsi = char(otp_mod);
otp_dekripsi2 = otp_dekripsi';
set(handles.dekrip,'String',otp_dekripsi2);
guidata(hObject, handles);
% hObject    handle to dekripsi (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

function pjgkar_Callback(hObject, eventdata, handles)
% hObject    handle to pjgkar (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of pjgkar as text
%        str2double(get(hObject,'String')) returns contents of pjgkar as a double

% --- Executes during object creation, after setting all properties.
function pjgkar_CreateFcn(hObject, eventdata, handles)
% hObject    handle to pjgkar (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function kode_Callback(hObject, eventdata, handles)
% hObject    handle to kode (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of kode as text
%        str2double(get(hObject,'String')) returns contents of kode as a double

% --- Executes during object creation, after setting all properties.
function kode_CreateFcn(hObject, eventdata, handles)
% hObject    handle to kode (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function inputkeyboard_Callback(hObject, eventdata, handles)
% hObject    handle to inputkeyboard (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of inputkeyboard as text
%        str2double(get(hObject,'String')) returns contents of inputkeyboard as a double

% --- Executes during object creation, after setting all properties.
function inputkeyboard_CreateFcn(hObject, eventdata, handles)
% hObject    handle to inputkeyboard (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function isi_Callback(hObject, eventdata, handles)
% hObject    handle to isi (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of isi as text
%        str2double(get(hObject,'String')) returns contents of isi as a double

% --- Executes during object creation, after setting all properties.
function isi_CreateFcn(hObject, eventdata, handles)
% hObject    handle to isi (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function dekrip_Callback(hObject, eventdata, handles)
% hObject    handle to dekrip (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of dekrip as text
%        str2double(get(hObject,'String')) returns contents of dekrip as a double

% --- Executes during object creation, after setting all properties.
function dekrip_CreateFcn(hObject, eventdata, handles)
% hObject    handle to dekrip (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
% See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function as_cipher_Callback(hObject, eventdata, handles)
% hObject    handle to as_cipher (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of as_cipher as text
%        str2double(get(hObject,'String')) returns contents of
%        as_cipher as a double

% --- Executes during object creation, after setting all properties.
function as_cipher_CreateFcn(hObject, eventdata, handles)
% hObject    handle to as_cipher (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns
% called
% Hint: edit controls usually have a white background on Windows.
% See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

% --- Executes on button press in pushbutton19.
function pushbutton19_Callback(hObject, eventdata, handles)
b=1; m=1;
if b == m
    while isprime(b)==0
        b=randint(1,1,[50,6000]);       %range b 50-6000
    end
    while isprime(m)==0
        m=randint(1,1,[500,60000]);     %range m 500-60000
    end
else
    return
end
set(handles.b_ed,'String',b);
set(handles.m_ed,'String',m);
% hObject    handle to pushbutton19 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

4. Tampilan bantuan (help.m)

function varargout = help(varargin)
% HELP M-file for help.fig
% HELP, by itself, creates a new HELP or raises the existing
% singleton*.
% H = HELP returns the handle to a new HELP or the handle to
% the existing singleton*.
% HELP('CALLBACK',hObject,eventData,handles,...) calls the local
function named CALLBACK in HELP.M with the given input arguments.

HELP('Property','Value',...) creates a new HELP or raises the existing singleton*. Starting from the left, property value pairs are applied to the GUI before help_OpeningFcn gets called. An unrecognized property name or invalid value makes property application stop. All inputs are passed to help_OpeningFcn via varargin.

*See GUI Options on GUIDE's Tools menu. Choose "GUI allows only one instance to run (singleton)".

See also: GUIDE, GUIDATA, GUIHANDLES

Edit the above text to modify the response to help help

Last Modified by GUIDE v2.5 21-Mar-2012 12:54:02

Begin initialization code - DO NOT EDIT

gui_Singleton = 1;
gui_State = struct('gui_Name', mfilename, ... 'gui_Singleton', gui_Singleton, ... 'gui_OpeningFcn', @help_OpeningFcn, ... 'gui_OutputFcn', @help_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

End initialization code - DO NOT EDIT

--- Executes just before help is made visible.
function help_OpeningFcn(hObject, eventdata, handles, varargin)
    % This function has no output args, see OutputFcn.
    % hObject    handle to figure
    % eventdata  reserved - to be defined in a future version of MATLAB
    % handles    structure with handles and user data (see GUIDATA)
    % varargin    command line arguments to help (see VARARGIN)
    % Choose default command line output for help
    handles.output = hObject;
    % Update handles structure
    guidata(hObject, handles);
    % UIWAIT makes help wait for user response (see UIRESUME)
    % uistack(handles.figure1);

--- Outputs from this function are returned to the command line.
function varargout = help_OutputFcn(hObject, eventdata, handles)
% varargout    cell array for returning output args (see VARARGOUT);
% hObject      handle to figure
% eventdata    reserved - to be defined in a future version of MATLAB
% handles      structure with handles and user data (see GUIDATA)
% Get default command line output from handles structure
varargout{1} = handles.output;

--- Outputs from this function are returned to the command line.
function varargout = help_OutputFcn(hObject, eventdata, handles)
% varargout    cell array for returning output args (see VARARGOUT);
% hObject      handle to figure
% eventdata    reserved - to be defined in a future version of MATLAB
% handles      structure with handles and user data (see GUIDATA)
% Get default command line output from handles structure
varargout{1} = handles.output;
function enkrip_Callback(hObject, eventdata, handles)
    %enk=handles.enk;
    set(handles.edit1,'String',enk);
    hObject    handle to enkrip (see GCBO)
    eventdata reserved - to be defined in a future version of MATLAB
    handles structure with handles and user data (see GUIDATA)
    % Hint: get(hObject,'Value') returns toggle state of enkrip

function dekrip_Callback(hObject, eventdata, handles)
    hObject    handle to dekrip (see GCBO)
    eventdata reserved - to be defined in a future version of MATLAB
    handles structure with handles and user data (see GUIDATA)
    % Hint: get(hObject,'Value') returns toggle state of dekrip

function edit1_Callback(hObject, eventdata, handles)
    hObject    handle to edit1 (see GCBO)
    eventdata reserved - to be defined in a future version of MATLAB
    handles structure with handles and user data (see GUIDATA)
    % Hints: get(hObject,'String') returns contents of edit1 as text
    %        str2double(get(hObject,'String')) returns contents of edit1 as a double

function edit2_Callback(hObject, eventdata, handles)
    hObject    handle to edit2 (see GCBO)
    eventdata reserved - to be defined in a future version of MATLAB
    handles empty - handles not created until after all CreateFcns called
    % Hint: edit controls usually have a white background on Windows.
    % See ISPC and COMPUTER.
    if ispc && isequal(get(hObject,'BackgroundColor'),
        get(0,'defaultUicontrolBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end

function edit1_CreateFcn(hObject, eventdata, handles)
    hObject    handle to edit1 (see GCBO)
    eventdata reserved - to be defined in a future version of MATLAB
    handles empty - handles not created until after all CreateFcns called
    % Hint: edit controls usually have a white background on Windows.
    % See ISPC and COMPUTER.
    if ispc && isequal(get(hObject,'BackgroundColor'),
        get(0,'defaultUicontrolBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end

function edit2_CreateFcn(hObject, eventdata, handles)
    hObject    handle to edit2 (see GCBO)
    eventdata reserved - to be defined in a future version of MATLAB
    handles empty - handles not created until after all CreateFcns called
    % Hint: edit controls usually have a white background on Windows.
    % See ISPC and COMPUTER.
    if ispc && isequal(get(hObject,'BackgroundColor'),
        get(0,'defaultUicontrolBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end
% --- Executes on button press in enkr.
function enkr_Callback(hObject, eventdata, handles)
% hObject    handle to enkr (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of enkr

% --- Executes on button press in dekr.
function dekr_Callback(hObject, eventdata, handles)
% hObject    handle to dekr (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hint: get(hObject,'Value') returns toggle state of dekr

% --- Executes during object creation, after setting all properties.
function edit4_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

% --- Executes on button press in back.
function back_Callback(hObject, eventdata, handles)
% hObject    handle to back (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
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Keahlian / Kursus yang diikuti
Bahasa Inggris