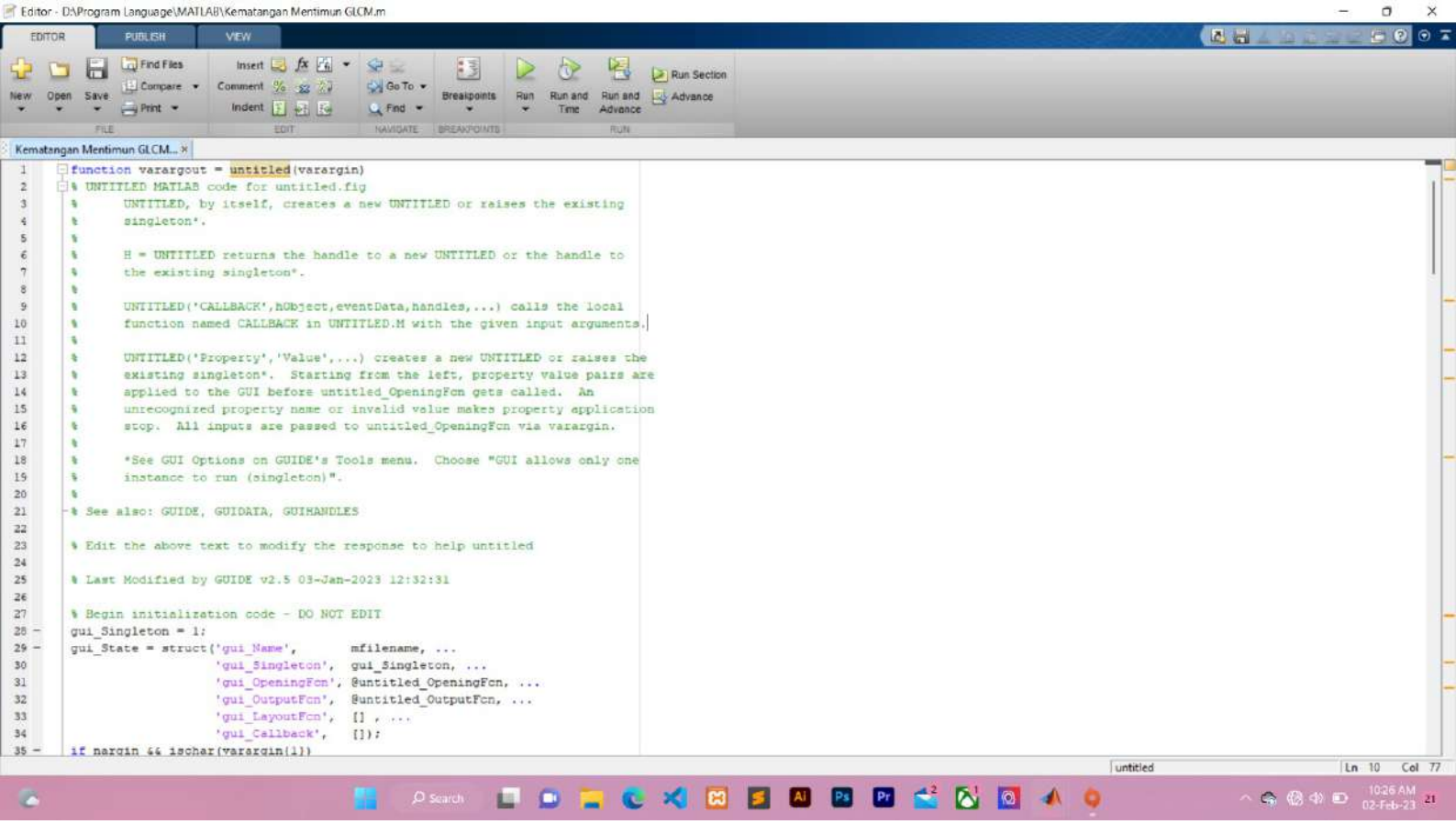
Editor - D:\Program Language\MATLAB\Kematangan Mentimun GLCM.m
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Kematangan Mentimun GLCM...
function varargout = untitled(varargin)
% UNTITLED MATLAB code for untitled.fig
% UNTITLED, by itself, creates a new UNTITLED or raises the existing
% singleton*.
% H = UNTITLED returns the handle to a new UNTITLED or the handle to
% the existing singleton*.
% UNTITLED('CALLBACK',hObject,eventData,handles,...) calls the local
% function named CALLBACK in UNTITLED.M with the given input arguments.
% UNTITLED('Property','Value',...) creates a new UNTITLED or raises the
% existing singleton*. Starting from the left, property value pairs are
% applied to the GUI before untitled_OpeningFcn gets called. An
% unrecognized property name or invalid value makes property application
% stop. All inputs are passed to untitled_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 untitled
% Last Modified by GUIDE v2.5 03-Jan-2023 12:32:31
% Begin initialization code - DO NOT EDIT
gui_Singleton = 1;
gui_State = struct('gui_Name', mfilename, ...
'gui_Singleton', gui_Singleton, ...
'gui_OpeningFcn', @untitled_OpeningFcn, ...
'gui_OutputFcn', @untitled_OutputFcn, ...
'gui_LayoutFcn', [] , ...
'gui_Callback', []);
if nargin && ischar(varargin{1})
untitled
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Kematangan Mentimun GLCM...

```
71      % handles    structure with handles and user data (see GUIDATA)
72
73      % Get default command line output from handles structure
74 -    varargout{1} = handles.output;
75
76
77      % --- Executes on button press in pushbutton1.
78      function pushbutton1_Callback(hObject, eventdata, handles)
79      % hObject    handle to pushbutton1 (see GCBO)
80      % eventdata  reserved - to be defined in a future version of MATLAB
81      % handles    structure with handles and user data (see GUIDATA)
82
83      % menampilkan menu "browse image"
84 -    [nama_file, nama_folder] = uigetfile('*.bmp');
85
86      % jika ada nama file yg dipilih maka akan mengeksekusi perintah di bawah
87      % ini
88
89 -    if ~isequal(nama_file,0)
90          %membaca file citra rgb
91 -        img = imread(fullfile(nama_folder, nama_file));
92
93          % menampilkan citra rgb pada axes
94 -        axes(handles.axes1)
95 -        imshow(img)
96 -        title('RGB Image')
97
98          % menyimpan variabel img pada lokasi handles agar dapat dipanggil oleh
99          % pushbutton yg lain
100 -        handles.img = img;
101 -        guidata(hObject, handles)
102 -    else
103     % jika tidak ada nama file yg dipilih maka akan kembali
104 -    return
105 -    end
```

untitled / pushbutton1_Callback | Ln 105 Col 4

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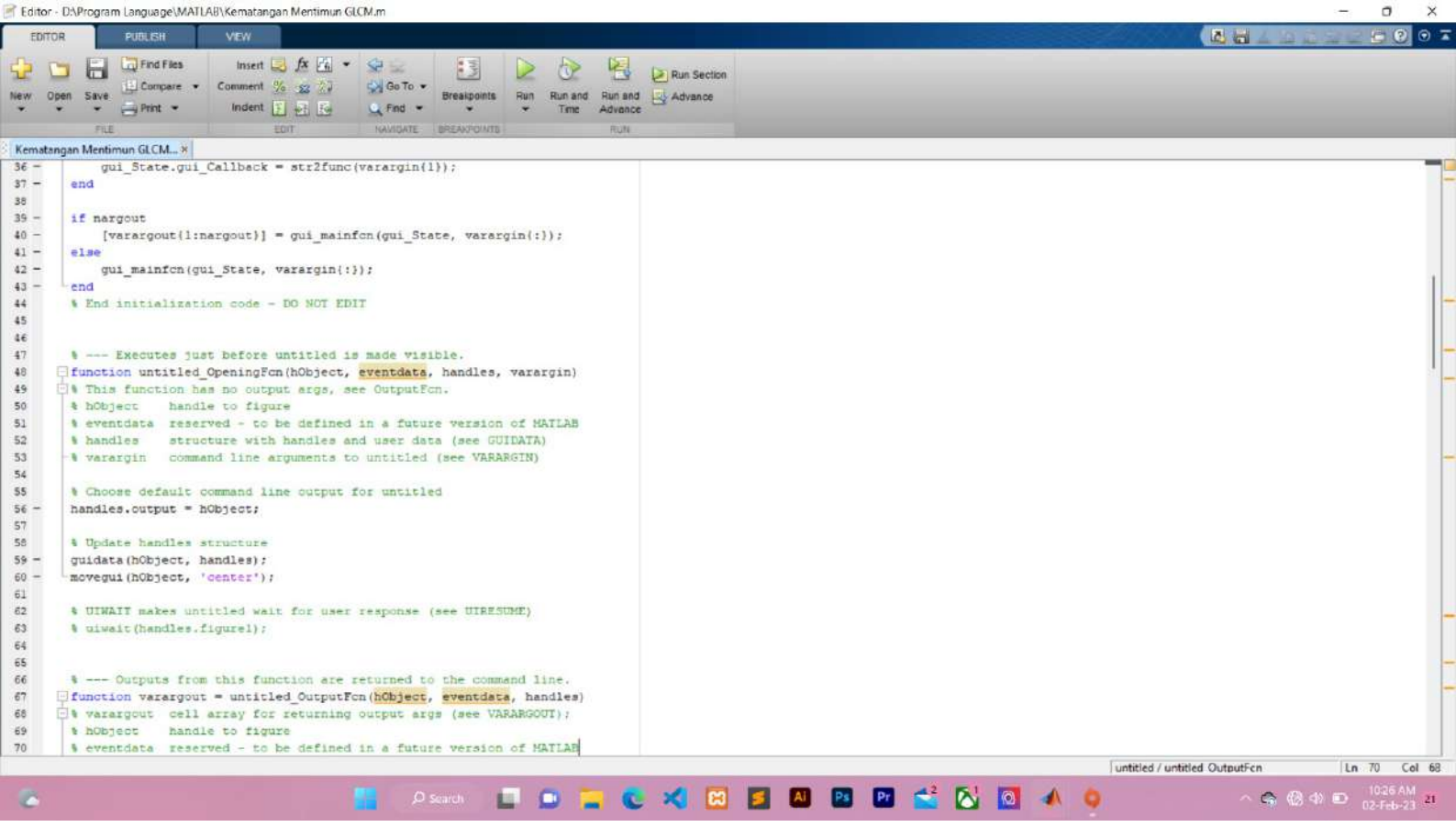
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Kematangan Mentimun GLCM...
gui_State.gui_Callback = str2func(varargin{1});
end
if nargout
[varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
gui_mainfcn(gui_State, varargin{:});
end
% End initialization code - DO NOT EDIT
% --- Executes just before untitled is made visible.
function untitled_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 untitled (see VARARGIN)
% Choose default command line output for untitled
handles.output = hObject;
% Update handles structure
guidata(hObject, handles);
movegui(hObject, 'center');
% UIWAIT makes untitled wait for user response (see UIRESUME)
% uiwait(handles.figure1);
% --- Outputs from this function are returned to the command line.
function varargout = untitled_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
untitled / untitled_OutputFcn
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Kematangan Mentimun GLCM...

```
142 -   data{1,1} = num2str(Contrast(1));
143 -   data{1,2} = num2str(Contrast(2));
144 -   data{1,3} = num2str(Contrast(3));
145 -   data{1,4} = num2str(Contrast(4));
146 -   data{1,5} = num2str(mean(Contrast));
147
148 -   data{2,1} = num2str(Correlation(1));
149 -   data{2,2} = num2str(Correlation(2));
150 -   data{2,3} = num2str(Correlation(3));
151 -   data{2,4} = num2str(Correlation(4));
152 -   data{2,5} = num2str(mean(Correlation));
153
154 -   data{3,1} = num2str(Energy(1));
155 -   data{3,2} = num2str(Energy(2));
156 -   data{3,3} = num2str(Energy(3));
157 -   data{3,4} = num2str(Energy(4));
158 -   data{3,5} = num2str(mean(Energy));
159
160 -   data{4,1} = num2str(Homogeneity(1));
161 -   data{4,2} = num2str(Homogeneity(2));
162 -   data{4,3} = num2str(Homogeneity(3));
163 -   data{4,4} = num2str(Homogeneity(4));
164 -   data{4,5} = num2str(mean(Homogeneity));
165
166 -   set(handles.uitable1,'Data',data)
167
168     % --- Executes on button press in pushbutton3.
169   function pushbutton3_Callback(hObject, eventdata, handles)
170   % hObject    handle to pushbutton3 (see GCBO)
171   % eventdata  reserved - to be defined in a future version of MATLAB
172   % handles    structure with handles and user data (see GUIDATA)
173
174 -   axes(handles.axes1)
175 -   cla reset
176 -   set(gca,'XTick',[])
```

untitled / pushbutton3_Callback | Ln 176 Col 20

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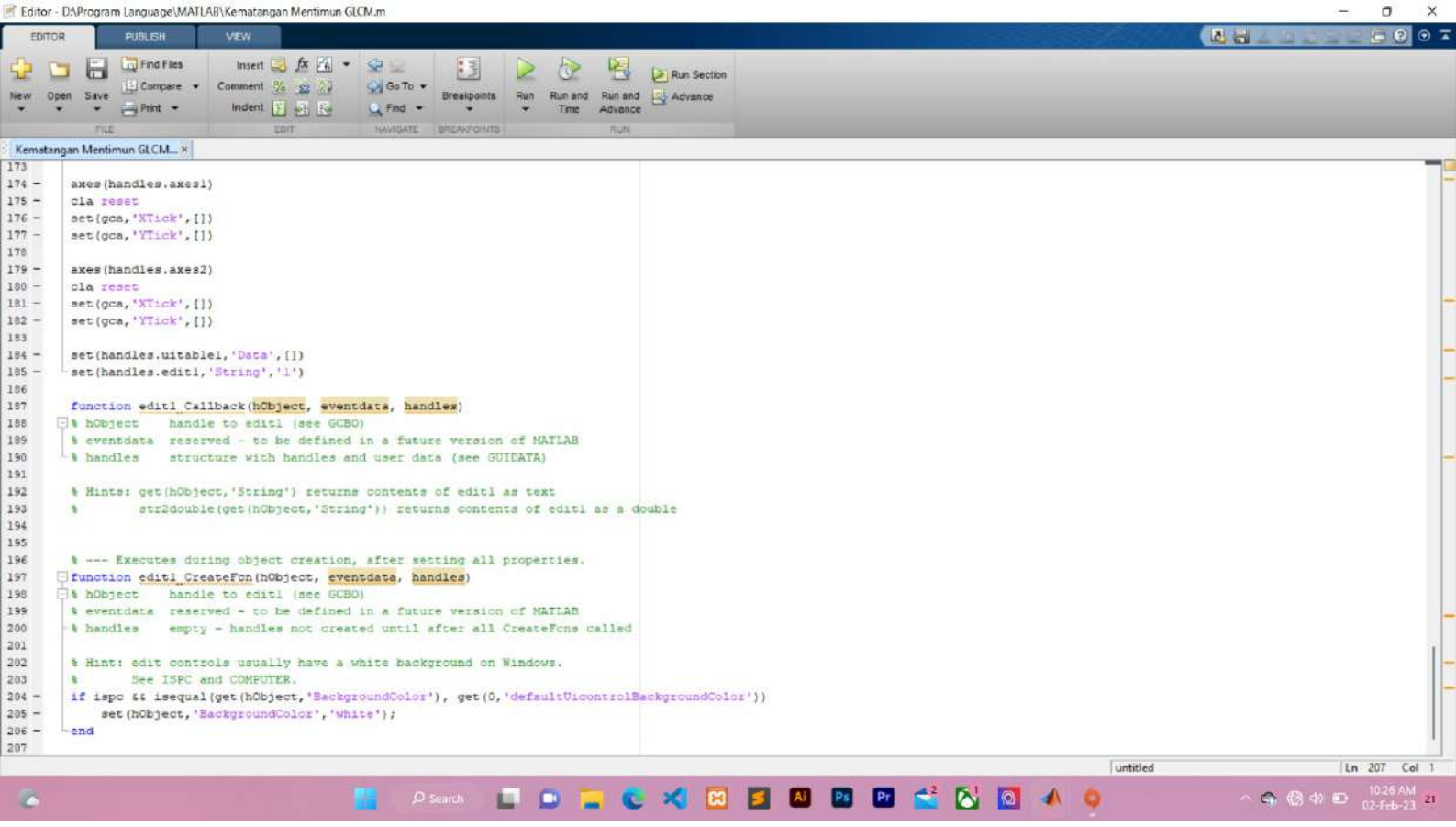
Kematangan Mentimun GLCM...

```
107     % --- Executes on button press in pushbutton2.
108   function pushbutton2_Callback(hObject, eventdata, handles)
109   % hObject    handle to pushbutton2 (see GCBO)
110   % eventdata  reserved - to be defined in a future version of MATLAB
111   % handles    structure with handles and user data (see GUIDATA)
112
113   % memanggil variabel img yg ada di lokasi handles
114   img = handles.img;
115
116   % mengkonversi citra rgb menjadi citra grayscale
117   img_gray = rgb2gray(img);
118
119   % menampilkan citra grayscale pada axes
120   axes(handles.axes2)
121   imshow(img_gray)
122   title('Grayscale Image')
123
124   % membaca pixel distance yg ada pada edit text
125   pixel_dist = str2double(get(handles.edit1,'String'));
126
127   % membentuk matriks kookurensi
128   GLCM = graycomatrix(img_gray,'Offset',[0 pixel_dist;...
129       -pixel_dist pixel_dist; -pixel_dist 0; -pixel_dist -pixel_dist]);
130
131   % mengekstrak fitur GLCM
132   stats = graycoprops(GLCM,{'Contrast','Correlation','Energy','Homogeneity'});
133
134   % membaca fitur GLCM
135   Contrast = stats.Contrast;
136   Correlation = stats.Correlation;
137   Energy = stats.Energy;
138   Homogeneity = stats.Homogeneity;
139
140   % menampilkan fitur GLCM pada tabel
141   data = get(handles.uitable1,'Data');
```

untitled / pushbutton2_Callback | Ln 141 Col 37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Kematangan Mentimun GLCM...
axes(handles.axes1)
cla reset
set(gca,'XTick',[])
set(gca,'YTick',[])
axes(handles.axes2)
cla reset
set(gca,'XTick',[])
set(gca,'YTick',[])
set(handles.uitable1,'Data',[])
set(handles.edit1,'String','1')
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
% --- Executes during object creation, after setting all properties.
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
untitled
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