Nama : Syahroni Bugis

Nim : 1918119

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| --- | --- | --- | --- |
| NO | Gambar | Area | Perimeter |
| 1 |  | 12943.00 | 462.983 |
| 2 |  | 11762.00 | 505.088 |
| 3 |  | 15649.00 | 518.649 |
| 4 |  | 12662.00 | 887.331 |
| 5 |  | 13018.00 | 899.762 |
| 6 |  | 13806.00 | 842.588 |
| 7 |  | 6096.00 | 622.921 |
| 8 |  | 18939.00 | 1317.16 |
| 9 |  | 108.00 | 34.834 |
| 10 |  | 22829.00 | 608.388 |
| 11 |  | 13856.00 | 707.926 |
| 12 |  | 13856.00 | 707.926 |
| 13 |  | 16502.00 | 615.377 |
| 14 |  | 16420.00 | 658.838 |
| 15 |  | 16582.00 | 531.013 |
| 16 |  | 17569.00 | 723.094 |
| 17 |  | 11848.00 | 606.655 |
| 18 |  | 26609.00 | 664.45 |
| 19 |  | 9958.00 | 830.275 |
| 20 |  | 18960.00 | 544.163 |

*Source Code* :

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| --- |
| function varargout = estrakhp(varargin)  % ESTRAKHP MATLAB code for estrakhp.fig  % ESTRAKHP, by itself, creates a new ESTRAKHP or raises the existing  % singleton\*.  %  % H = ESTRAKHP returns the handle to a new ESTRAKHP or the handle to  % the existing singleton\*.  %  % ESTRAKHP('CALLBACK',hObject,eventData,handles,...) calls the local  % function named CALLBACK in ESTRAKHP.M with the given input arguments.  %  % ESTRAKHP('Property','Value',...) creates a new ESTRAKHP or raises the  % existing singleton\*. Starting from the left, property value pairs are  % applied to the GUI before estrakhp\_OpeningFcn gets called. An  % unrecognized property name or invalid value makes property application  % stop. All inputs are passed to estrakhp\_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 estrakhp    % Last Modified by GUIDE v2.5 28-May-2022 14:19:38    % Begin initialization code - DO NOT EDIT  gui\_Singleton = 1;  gui\_State = struct('gui\_Name', mfilename, ...  'gui\_Singleton', gui\_Singleton, ...  'gui\_OpeningFcn', @estrakhp\_OpeningFcn, ...  'gui\_OutputFcn', @estrakhp\_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 estrakhp is made visible.  function estrakhp\_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 estrakhp (see VARARGIN)    % Choose default command line output for estrakhp  handles.output = hObject;    % Update handles structure  guidata(hObject, handles);    % UIWAIT makes estrakhp wait for user response (see UIRESUME)  % uiwait(handles.figure1);      % --- Outputs from this function are returned to the command line.  function varargout = estrakhp\_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 pushbutton1.  function pushbutton1\_Callback(hObject, eventdata, handles)  % hObject handle to pushbutton1 (see GCBO)  % eventdata reserved - to be defined in a future version of MATLAB  % handles structure with handles and user data (see GUIDATA)  [nama\_file,nama\_folder]=uigetfile('\*.jpg; \*.png; \*.jpeg');    %jika ada nama file yang terpilih maka akan mengeksekusi percabanan ini  if ~isequal(nama\_file,0)  %membaca ctra rgb  citra=imread(fullfile(nama\_folder,nama\_file));  %menampikan citra di axes  axes(handles.axes1)  imshow(citra)  title('citra yang di olah')  %simpan variabel i d dalam handles agar bisa di simpan  handles.citra=citra;  guidata(hObject,handles)  set(handles.edit13,'string',nama\_file)  else  %jika tidak ada file maka akan kembali  return  end      % --- Executes on button press in pushbutton2.  function pushbutton2\_Callback(hObject, eventdata, handles)  % hObject handle to pushbutton2 (see GCBO)  % eventdata reserved - to be defined in a future version of MATLAB  % handles structure with handles and user data (see GUIDATA)  ekstrak\_citra=handles.citra;  ekstrak\_citra=rgb2hsv(ekstrak\_citra);  h=ekstrak\_citra(:,:,1);  s=ekstrak\_citra(:,:,2);  v=ekstrak\_citra(:,:,3);  binary\_citra=im2bw(s,.25);  binary\_citra=imfill(binary\_citra,'holes');  binary\_citra=bwareaopen(binary\_citra,100);  axes(handles.axes2)  imshow(binary\_citra)  title('citra binary')  [bonding,long]=bwboundaries(binary\_citra,'noholes');  stats=regionprops(long,'ALL')  perimeter=cat(1,stats.Perimeter);  area=cat(1,stats.Area);      set(handles.edit1,'string',num2str(area,'%0.2f'));  set(handles.edit2,'string',perimeter);        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        function edit2\_Callback(hObject, eventdata, handles)  % hObject handle to edit2 (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 edit2 as text  % str2double(get(hObject,'String')) returns contents of edit2 as a double      % --- Executes during object creation, after setting all properties.  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 |