**Data Citra Ember**

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| --- | --- | --- | --- | --- |
| **No** | **Gambar** | **Luas** | **Perimeter** | **Klasifikasi Ukuran** |
| 1 |  | 247401,25 | 4499,875 | Sedang |
| 2 |  | 284507,875 | 2857,375 | Kecil |
| 3 |  | 109522,375 | 4514,625 | Besar |
| 4 |  | 129612,625 | 4899,375 | Besar |
| 5 |  | 161328,875 | 5348 | Besar |
| 6 |  | 244880,75 | 4127,125 | Sedang |
| 7 |  | 155040.25 | 5241,75 | Besar |
| 8 |  | 156538,375 | 4482,625 | Besar |
| 9 |  | 338534,75 | 1100,725 | Besar |
| 10 |  | 264962,375 | 4642 | Besar |
| 11 |  | 256750,5 | 3502,5 | Sedang |
| 12 |  | 281072 | 2915,625 | Kecil |
| 13 |  | 270418.25 | 3929,375 | Sedang |
| 14 |  | 284385,125 | 3793,75 | Sedang |
| 15 |  | 240679.25 | 5116.25 | Besar |
| 16 |  | 281067,25 | 28150,125 | Kecil |
| 17 |  | 283844,125 | 3079,625 | Sedang |
| 18 |  | 314965.5 | 7.494.125 | Besar |
| 19 |  | 260371 | 3285,875 | Sedang |
| 20 |  | 158538,75 | 5375,125 | Besar |

1. Besar

Perimeter > 4500

1. Sedang

Perimeter > 3000

1. Kecil

Perimeter <= 3000

Source Code Tombol Input Citra :

function OpenButtonPushed(app, event)

[namafile, formatfile] = uigetfile({'\*.jpg;\*.jpeg;\*.png'}, 'membuka gambar')

global gambar

gambar = imread([formatfile, namafile])

app.Image.ImageSource=gambar

Source Code Tombol Ekstraksi :

function EkstraksiButtonPushed(app, event)

global gambar

abu = rgb2gray(gambar)

thd=graythresh(abu)

biner=im2bw(abu,thd)

luas = bwarea(biner)

p= bwperim(biner)

perimeter=bwarea(p)

if perimeter > 4500

ukuran='Besar'

elseif perimeter > 3000

ukuran='Sedang'

else

ukuran='Kecil'

end

app.LuasEditField.Value=num2str(luas)

app.PerimeterEditField.Value=num2str(perimeter)

app.UkuranEditField.Value=ukuran