

PCVK

BINARY MORPHOLOGICAL OPERATIONS



Arranged By:

Rajendra Rakha Arya Prabaswara

(1941720080/20)

PROGRAM STUDI D-IV TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG



1. Importing Library

```
[ ] from google.colab import drive
drive.mount('/content/drive')

Mounted at /content/drive

[ ] import cv2
import numpy as np
from matplotlib import pyplot as plt
```

GITHUB LINK : https://github.com/Rjndrkha/PCVK_Genap_2022

2. Make the dilation operation and show the results on the image of the Structuring Element shaped 5 x 5 square without using the OpenCV morphology library, this generating the results shows in the figure (Use image "j.png")

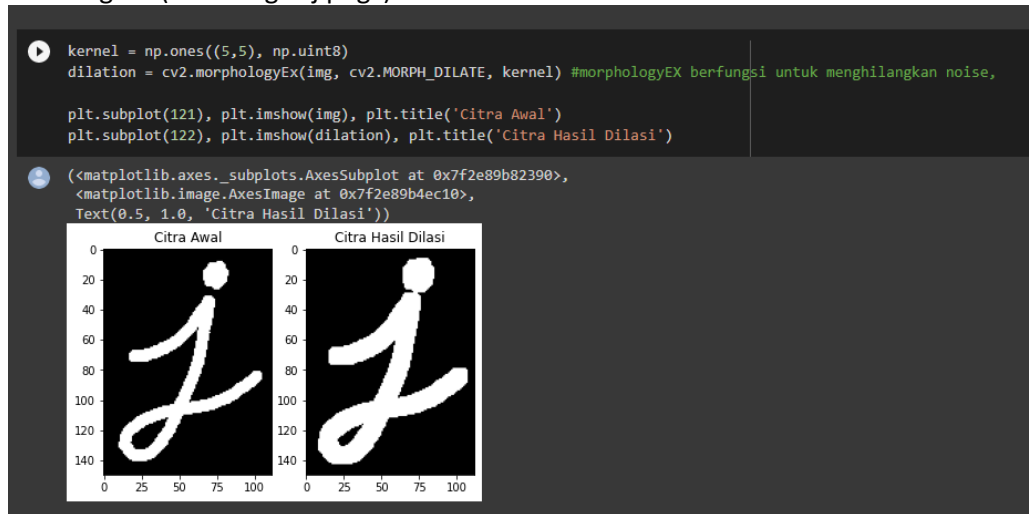


3. Make the erosion operation and show the results on the image of the Structuring Element shaped 5 x 5 square without using the OpenCV morphology library, thus generating the results shows in the figure (Use image "j.png")

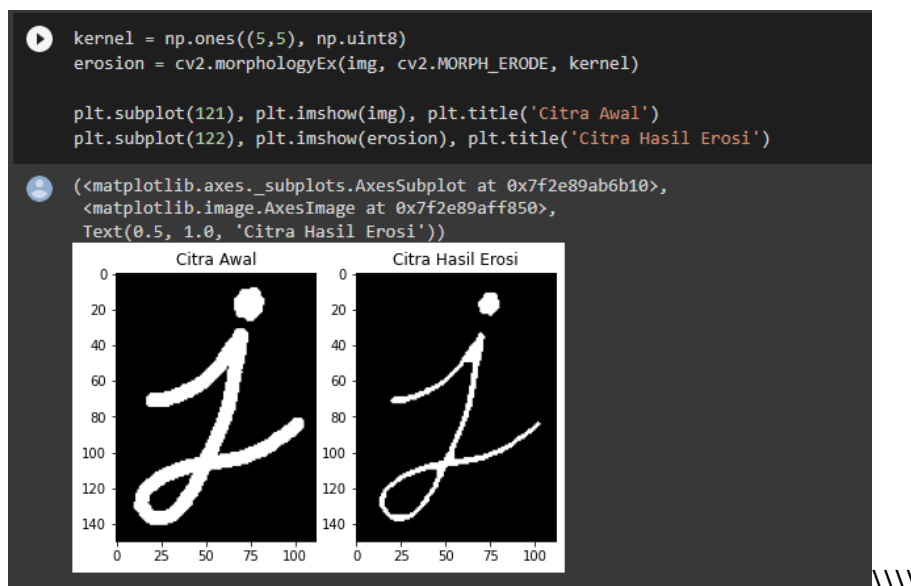




4. Make the dilation operation and show the results on the image of the Structuring Element shaped 5 x 5 square using the OpenCV morphology library, thus generating the results shows in the figure (Use image "j.png")

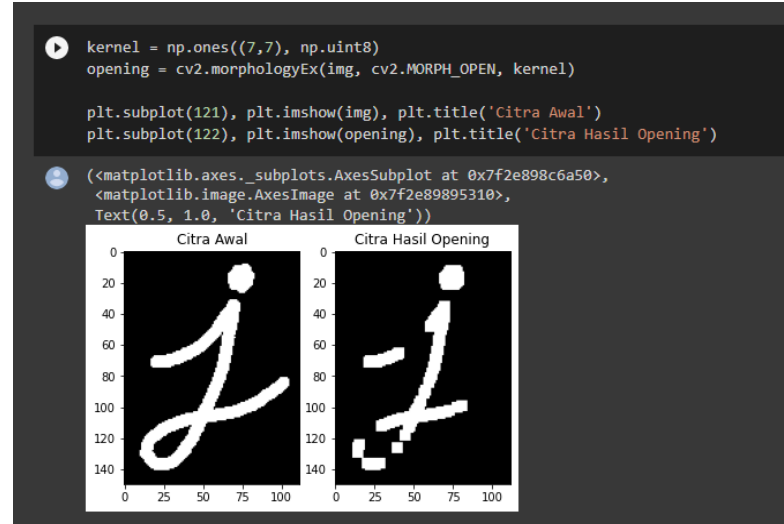
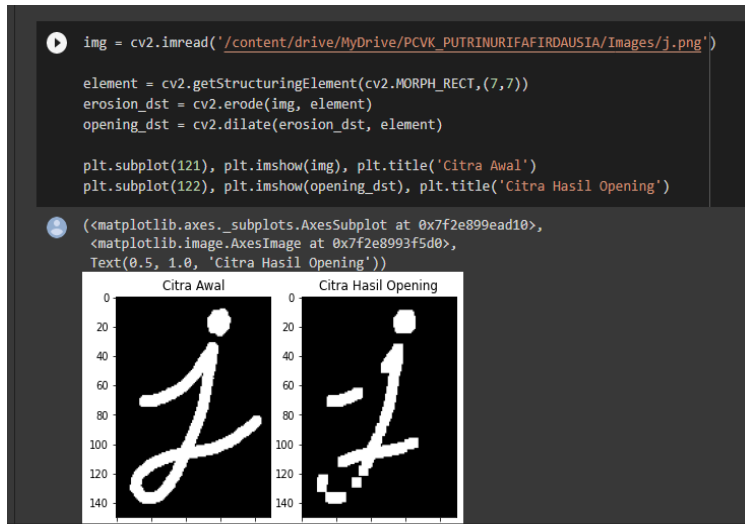


5. Make the erosion operation and show the results on the image of the Structuring Element shaped 5 x 5 square using the OpenCV morphology library, thus generating the results shows in the figure (Use image "j.png")

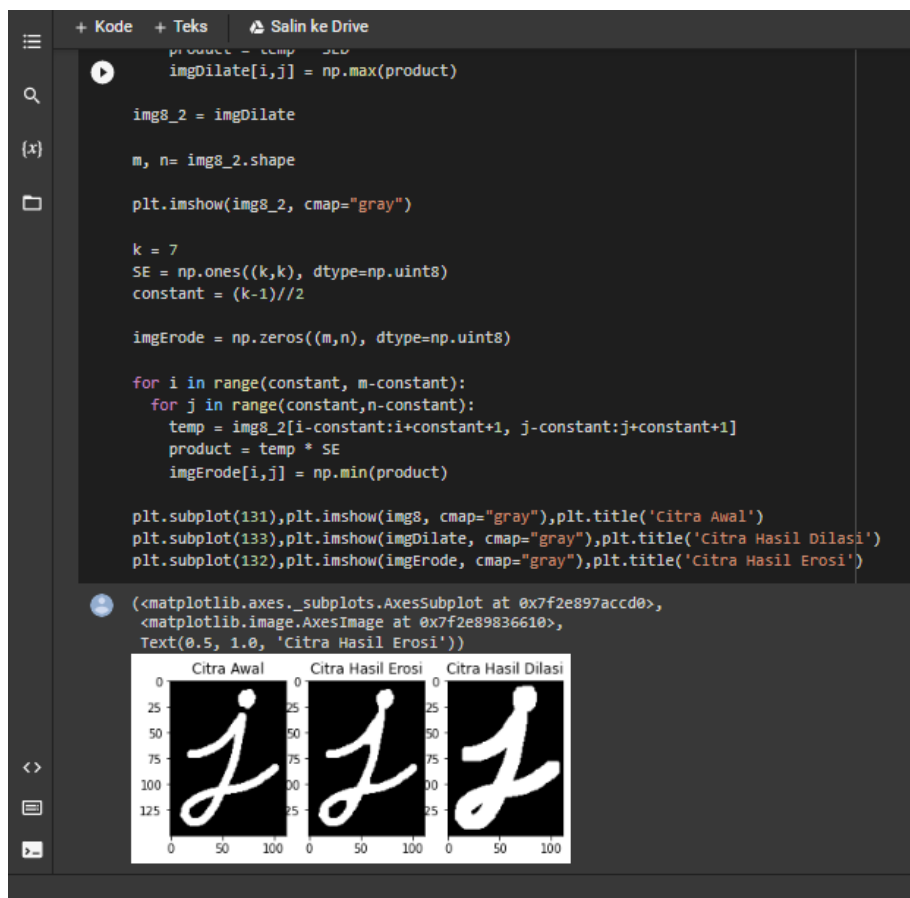




6. Make the Opening operation and show the results on the image of the Structuring Element shaped 7 x 7 square with and without using the OpenCV morphology library, thus generating the results shows in the figure (Use image "j.png")

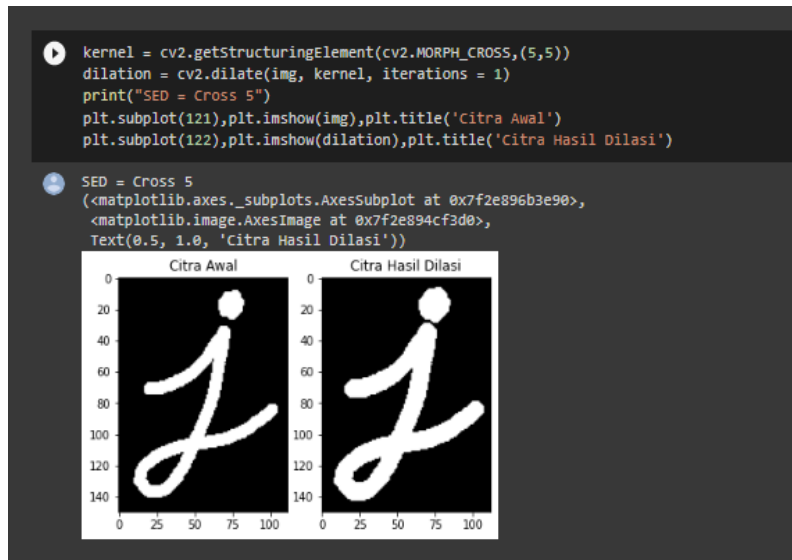
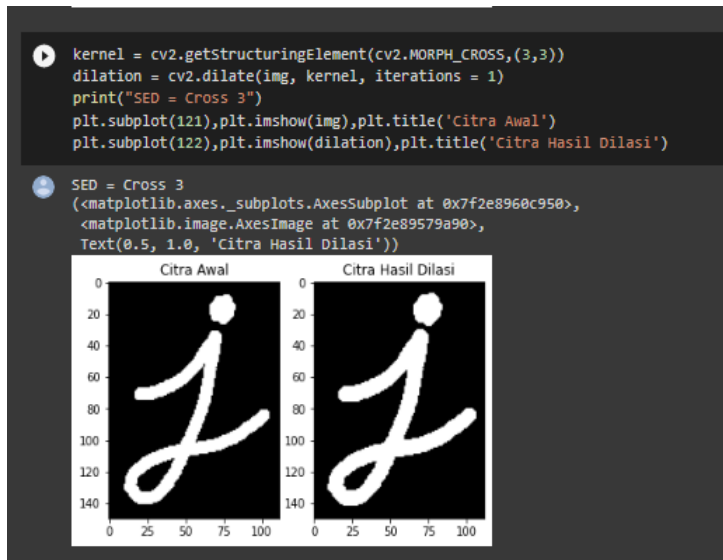


7. Make the Opening operation and show the results on the image of the Structuring Element shaped 7 x 7 square with and without using the OpenCV morphology library, this generating the results shows in the figure (Use image "j.png")

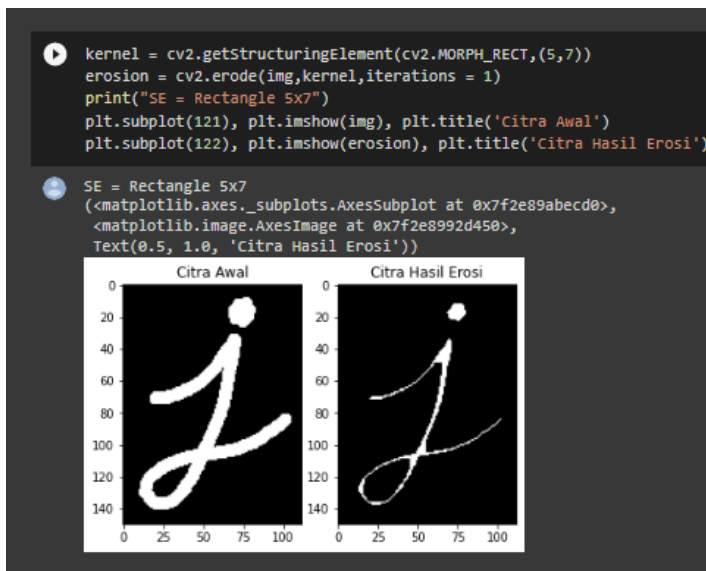




8. Make the Dilation operation and show the results on the image of the Structuring Element shaped 3x3 and 5x5 Cross using the OpenCV morphology library, thus generating the results shows in the figure (Use image "j.png")

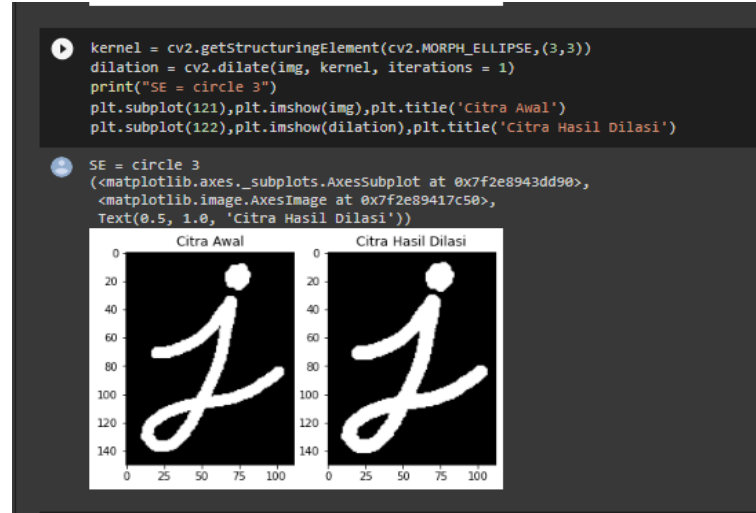


9. Make the Dilation operation and show the results on the image of the Structuring Element shaped 3x3 and 5x5 Circular using the OpenCV morphology library, this generating the results shows in the figure (Use image "j.png")





10. Make the Erosion operation and show the results on the image of the Structuring Element shaped 3x3 and 5x5 Rectangle using the OpenCV morphology library, this generating the results shows in the figure (Use image "j.png")



11. Make the Dilation operation and show the results on the image of the Structuring Element shaped 3 and 5 Line Vertical using the OpenCV morphology library, this generating the results shows in the figure (Use image "j.png")

