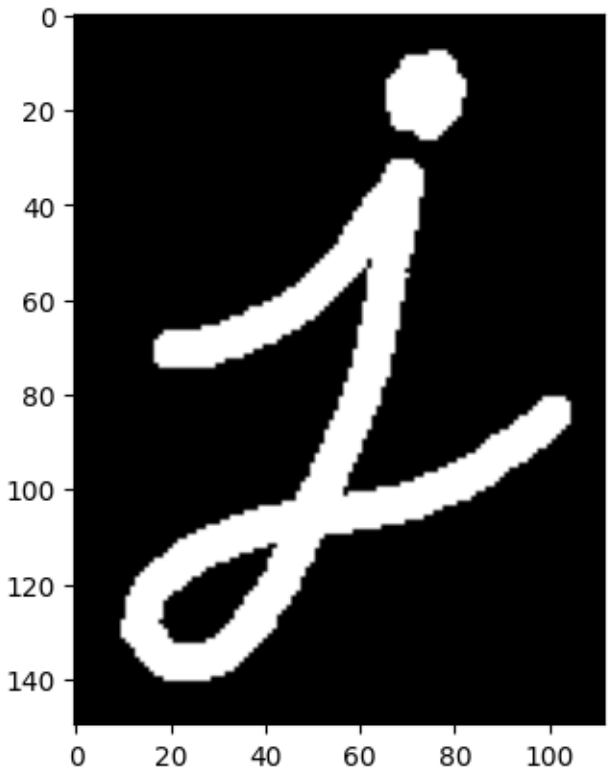
task-6-02-erosion

January 19, 2024

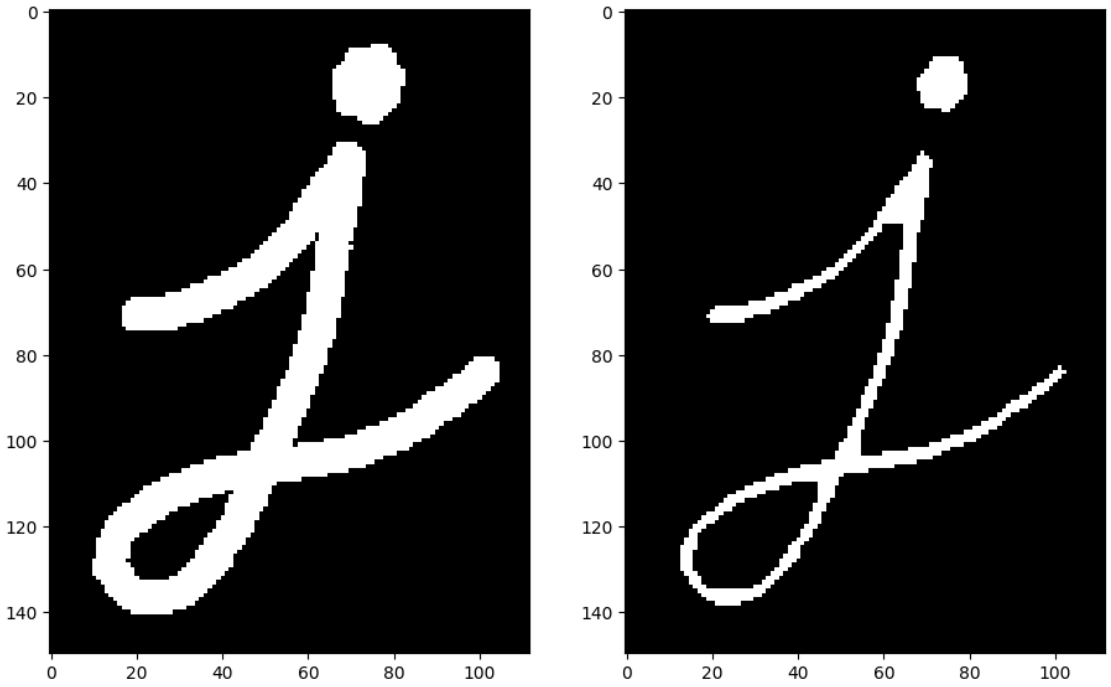
Task 6.2 | 65011428 Papinwich Asnapetch

[1]:
```
import cv2
from matplotlib import pyplot as plt
import numpy as np
```

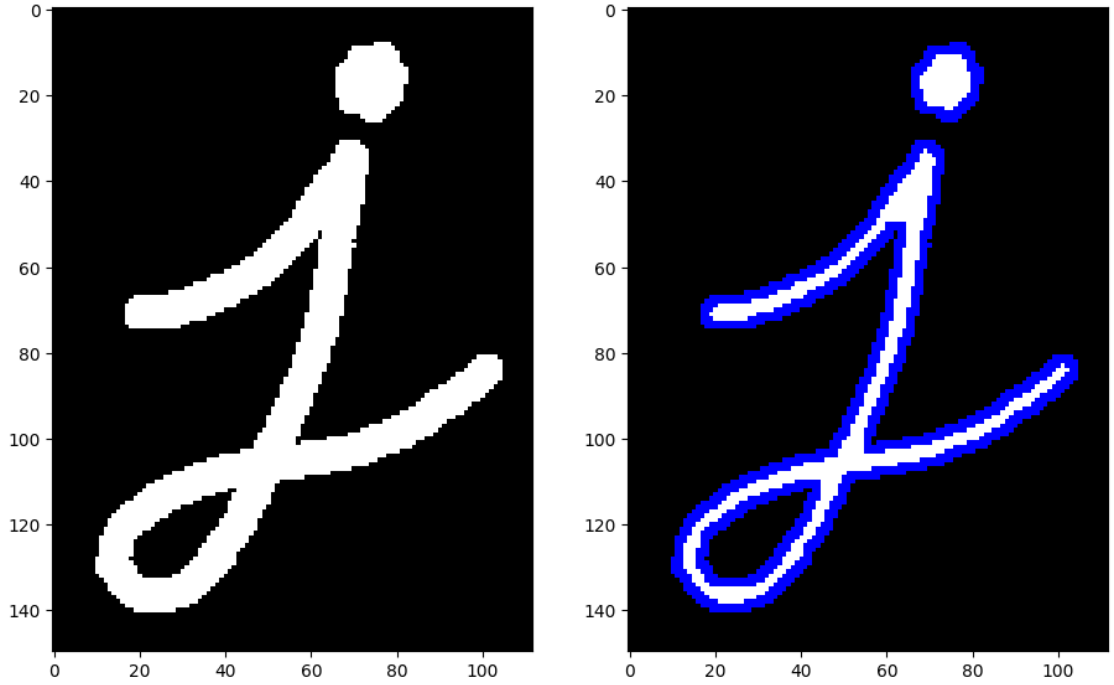
[3]:
```
# Load Image
img = cv2.imread('j.png')
img = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)

plt.imshow(img, cmap='gray')

def imgDisplay(localImg):
    plt.figure(figsize= (11, 11))

    plt.subplot(1, 2, 1)
    plt.imshow(img, cmap= 'gray')

    plt.subplot(1, 2, 2)
    plt.imshow(localImg, cmap= 'gray')

    plt.show()
```



[27]:
```
# Erode image
kernel = np.ones((5,5), np.uint8)
img_eroded = cv2.erode(img, kernel, iterations= 1)

imgDisplay(img_eroded)
```



[31]:
```
# Convert img to RGB
img_rgb = cv2.cvtColor(img, cv2.COLOR_GRAY2RGB)

# Create mask
mask = img - img_eroded

# Mask a specific region to blue
img_rgb[mask > 0] = [0, 0, 255]

# Display
imgDisplay(img_rgb)
```


0
20
40
60
80
100
120
140
0
20
40
60
80
100
0
20
40
60
80
100
120
140
0
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