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20)Implement the Dilation technique as a Morphological operation to dilate the foreground regions
based on Open CV.
Code:
import cv2
import numpy as np
# Load the image in grayscale
image = cv2.imread(r"C:\Users\harik\Downloads\CV LAB\greysacle.png", cv2.IMREAD_GRAYSCALE)
# Threshold the image to binary (optional, based on your input)
_, binary = cv2.threshold(image, 127, 255, cv2.THRESH_BINARY)
# Define a kernel (structuring element)
kernel = np.ones((5, 5), np.uint8)
# Apply dilation
dilated_image = cv2.dilate(binary, kernel, iterations=1)
# Display the result
cv2.imshow('Original', binary)
cv2.imshow('Dilated', dilated_image)
cv2.waitKey(0)
cv2.destroyAllWindows()
# Optional: Save the result
cv2.imwrite('dilated_output.png', dilated_image)
```

OUTPUT:

