Program:

from google.colab import files

uploaded = files.upload()

import cv2

import matplotlib.pyplot as plt

import numpy as np

filename = next(iter(uploaded))

image = cv2.imread(filename)

if image is None:

print("❌ Error: Unable to read the image. Try again.")

else:

gray = cv2.cvtColor(image, cv2.COLOR\_BGR2GRAY)

kernel = np.ones((5, 5), np.uint8)

dilated = cv2.dilate(gray, kernel, iterations=1)

plt.figure(figsize=(10, 5))

plt.subplot(1, 2, 1)

plt.title("Original Image")

plt.imshow(cv2.cvtColor(image, cv2.COLOR\_BGR2RGB))

plt.axis('off')

plt.subplot(1, 2, 2)

plt.title("Dilated Image (Grayscale)")

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

plt.axis('off')

plt.tight\_layout()

plt.show()

Output:

