import cv2

from matplotlib import pyplot as plt

# Step 3: Set the filename (image should already be in the Colab environment)

filename = '1.PNG'

# Step 4: Read the image

image = cv2.imread(filename)

# Step 5: Check and convert to grayscale

if image is None:

print("Error: Image not found. Make sure '1.png' exists in your Colab files.")

else:

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

# Step 6: Display the images

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("Grayscale Image")

plt.imshow(gray\_image, cmap='gray')

plt.axis('off')

plt.tight\_layout()

plt.show()

output: