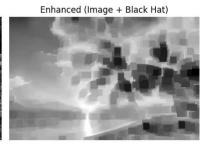
PROGRAM: import cv2 import numpy as np from matplotlib import pyplot as plt # Load the grayscale image image = cv2.imread(r"C:\Users\harik\Downloads\CV LAB\grayscalee.png", cv2.IMREAD\_GRAYSCALE) # Define a structuring element (kernel) kernel = cv2.getStructuringElement(cv2.MORPH\_RECT, (15, 15)) # Apply the Black Hat morphological operation blackhat = cv2.morphologyEx(image, cv2.MORPH\_BLACKHAT, kernel) # Optional: Enhance result by adding blackhat to original image enhanced = cv2.add(image, blackhat) # Display results plt.figure(figsize=(12, 6)) plt.subplot(1, 3, 1), plt.title("Original"), plt.imshow(image, cmap='gray'), plt.axis('off') plt.subplot(1, 3, 2), plt.title("Black Hat"), plt.imshow(blackhat, cmap='gray'), plt.axis('off') plt.subplot(1, 3, 3), plt.title("Enhanced (Image + Black Hat)"), plt.imshow(enhanced, cmap='gray'), plt.axis('off') plt.tight\_layout() plt.show() OUTPUT:

23). Implement the Top hat technique as a Morphological operation to dilate the foreground

regions based on Open CV.







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