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1)Perform basic Image Handling and processing operations on the image is to read an image in python and Convert an Image to Gray-scale.

CODE:

```python
import cv2

# Step 1: Read the image
image = cv2.imread(r"C:\Users\harik\Downloads\CV LAB\MOUNTAIN.jpeg")

# Step 2: Check if the image is loaded properly
if image is None:
    print("Error: Could not load the image.")
else:
    # Step 3: Convert the image to grayscale
    gray_image = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)

    # Step 4: Display the original image
    cv2.imshow("Original Image", image)

    # Step 5: Display the grayscale image
    cv2.imshow("Grayscale Image", gray_image)

    # Wait for a key to close the image windows
    cv2.waitKey(0)

    cv2.destroyAllWindows()
```
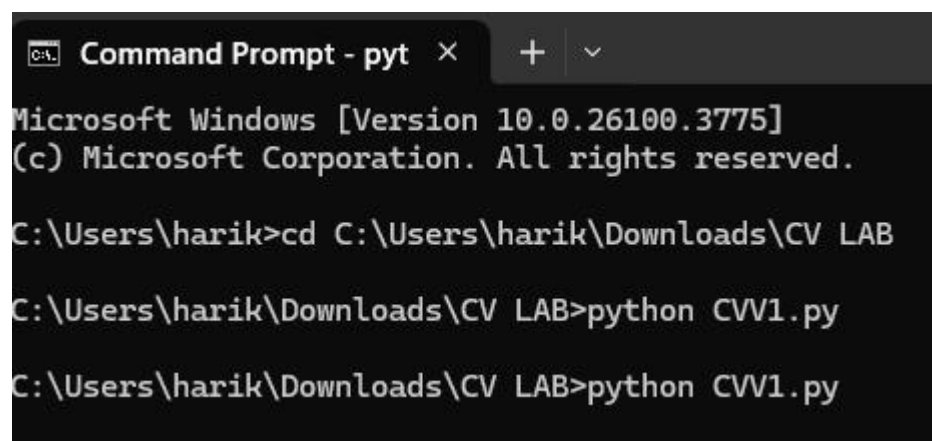
```
Command Prompt - pyt  ×      +  ∨

Microsoft Windows [Version 10.0.26100.3775]
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C:\Users\harik>cd C:\Users\harik\Downloads\CV LAB

C:\Users\harik\Downloads\CV LAB>python CVV1.py

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```