8) Perform basic Image Handling and processing operations on the image is to read an image in python and Dilate an Image using Dilate function

```
CODE:
import cv2
import numpy as np
# Step 1: Read the image
image = cv2.imread(r"C:\Users\harik\Downloads\CV LAB\MOUNTAIN.jpeg") # Replace with your
image file path
cv2.imshow('Original Image', image)
# Step 2: Convert to grayscale (recommended before morphological operations)
gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
# Step 3: Create a binary image (thresholding)
_, binary = cv2.threshold(gray, 120, 255, cv2.THRESH_BINARY)
# Step 4: Define a kernel for dilation
kernel = np.ones((5, 5), np.uint8) # You can change kernel size
# Step 5: Apply dilation
dilated = cv2.dilate(binary, kernel, iterations=1)
# Step 6: Show results
cv2.imshow('Dilated Image', dilated)
# Wait and close
cv2.waitKey(0)
cv2.destroyAllWindows()
```

OUTPUT:

