23)Implement the Top hat technique as a Morphological operation to dilate the foreground regions based on Open CV.
CODE:

```
import cv2
import numpy as np

# Step 1: Load the image in grayscale
image = cv2.imread(r"C:\Users\harik\Downloads\CV LAB\mountaingrey.jpeg",
cv2.IMREAD_GRAYSCALE)

# Step 2: Optional - Apply threshold to get a binary image (only if needed)
# _, binary = cv2.threshold(image, 127, 255, cv2.THRESH_BINARY)

# Step 3: Define the structuring element (kernel)
kernel = cv2.getStructuringElement(cv2.MORPH_RECT, (5, 5))

# Step 4: Apply the Top Hat operation
tophat = cv2.morphologyEx(image, cv2.MORPH_TOPHAT, kernel)

# Step 5: Display the results
cv2.imshow("Original", image)
cv2.imshow("Top Hat", tophat)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

OUTPUT: