

22) Implement the Closing 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

image = cv2.imread(r"C:\Users\harik\Downloads\CV LAB\mountaingrey.jpeg",
cv2.IMREAD_GRAYSCALE)

# Step 2: Thresholding to get a binary image (if it's not already binary)
_, binary = cv2.threshold(image, 127, 255, cv2.THRESH_BINARY)

# Step 3: Define the kernel (structuring element)
kernel = cv2.getStructuringElement(cv2.MORPH_RECT, (5, 5)) # You can adjust size and shape

# Step 4: Apply Closing operation
closed_image = cv2.morphologyEx(binary, cv2.MORPH_CLOSE, kernel)

# Step 5: Display the result
cv2.imshow('Original Binary', binary)
cv2.imshow('After Closing', closed_image)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

OUTPUT:

