1. **Morphological operations based on OpenCV using Top hat technique.**

**Aim:**

To perform morphological operations based on open cv using top hat technique.

**Code:**

import cv2

import numpy as np

import matplotlib.pyplot as plt

image = cv2.imread(r"C:\Users\prith\Documents\CV\cvimage.jpg", cv2.IMREAD\_GRAYSCALE)

kernel = np.ones((15, 15), np.uint8)

top\_hat = cv2.morphologyEx(image, cv2.MORPH\_TOPHAT, kernel)

plt.figure(figsize=(10, 5))

plt.subplot(1, 2, 1)

plt.title('Original Image')

plt.imshow(image, cmap='gray')

plt.subplot(1, 2, 2)

plt.title('Top Hat Image')

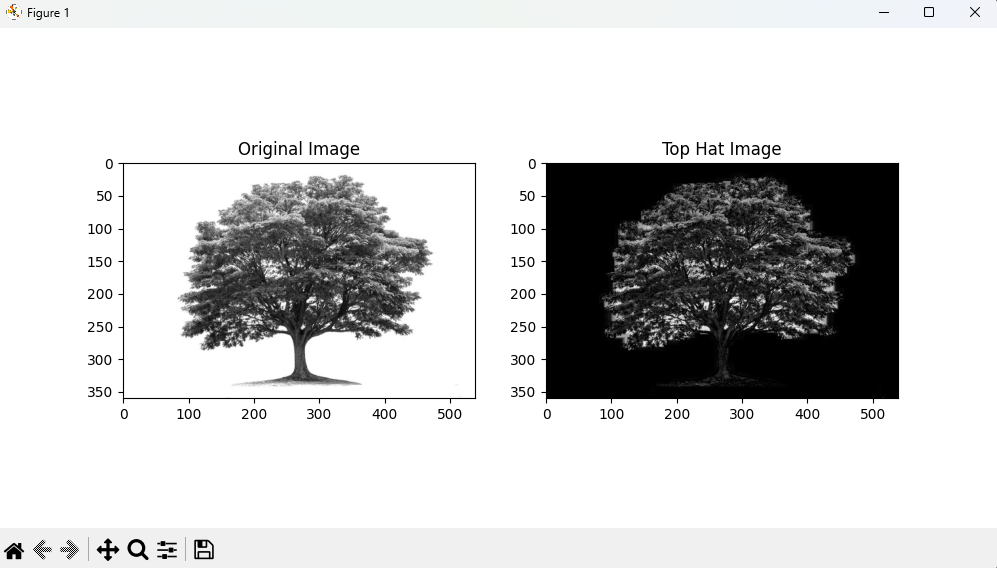
plt.imshow(top\_hat, cmap='gray')

plt.show()

**Input:**



**Output:**

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**Result:**

The python code to perform morphological operations based on open cv using top hat technique has been executed successfully.