```
import cv2 as cv
import numpy as np
img = cv.imread(
   r"D:\FCI\The 3 Level\The Second Term\New\Digital Image Processing\imags\input_imageRGB4.png")
# Define Laplacian mask
laplacian_mask = np.array([[0, -1, 0], [-1, 4, -1], [0, -1, 0]])
output_img = np.zeros_like(img)
size = 1
for i in range(size, img.shape[0] - size):
    for j in range(size, img.shape[1] - size):
        for k in range(3):
            center = img[i, j, k]
            neighbors = img[i - size:i + size + 1, j - size:j + size + 1, k]
            laplacian = np.sum(laplacian_mask * neighbors)
            output_img[i, j, k] = np.clip(center - laplacian, 0, 255)
cv.imshow("Orginal", img)
cv.imshow("Output_img", output_img)
cv.waitKey(0)
cv.destroyAllWindows()
```