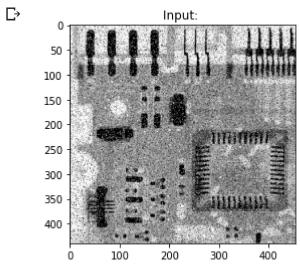
```
# -*- coding: utf-8 -*-
Created on Sun Apr 24 21:42:13 2022
@author: Asus
....
import cv2 as cv
import matplotlib.pyplot as plt
import numpy as np
import math
path = "/content/drive/MyDrive/vision/New folder/median.jpg"
img = cv.imread(path)
img = cv.cvtColor(img, cv.COLOR_BGR2GRAY)
plt.imshow(img, "gray")
plt.title("Input: ")
plt.show()
print("Enter kernel height: ")
k h = int(input())
print("Enter kernel weidth: ")
k w = int(input())
kernel = np.ones((k_h,k_w), np.float32)
a = kernel.shape[0] // 2
b = kernel.shape[1] // 2
m = img.shape[0]
n = img.shape[1]
op = np.zeros((m,n), np.float32)
ksum = kernel.sum()
for i in range(m):
    for j in range(n):
        value = 0
        for x in range(-a,a+1):
            for y in range(-b,b+1):
                if i+x >= 0 and i+x < m and j+y >= 0 and j+y < n:
                    value+=kernel[a+x][b+y]*img[i+x][j+y]
```

else:

value+=0

value/=ksum
op[i][j] = value

plt.imshow(op, "gray")
plt.title("Output for mean filter: ")
plt.show()

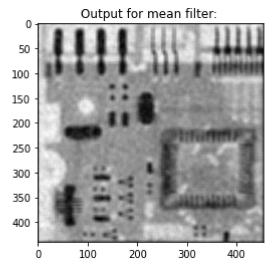


Enter kernel height:

9

Enter kernel weidth:

9



✓ 39s completed at 9:25 PM

×