import cv2  
import numpy as np  
from matplotlib import pyplot as plt  
  
img = cv2.imread('lena.png')  
  
d = input("Please input diameter:\n")  
sig\_color = input("Please input Sigma Color:\n")  
sig\_space = input("Please input Sigma Space:\n")  
  
cv2.imshow('input', img)  
# Bilateral Filtering  
out = cv2.bilateralFilter(img,int(d),int(sig\_color),int(sig\_space))  
cv2.imshow('Bilateral Filter Output', out)  
cv2.waitKey(0)  
cv2.destroyAllWindows()

