a. Take any of your gray scale photo and blur it with standard box filter of size 3x3, 5x5 ,7x7 and 9x9. Comment on amount of blurring and filter size. Assume padding of zeros.
b. Observe border of image for results in (a). Justify the reason for dark borders. Comment on thickness of the border and filter size. Suggest a way to solve the issue. Implement your suggestion and show the code and results.
c. Take any of your gray scale photo and blur it with weighted average filter. Compare amount of blurring with the standard box filter of the same size.
d. Assume that you are working on some image enhancement application which gives following functionality to user.
    1) Anti-aging: Removes the wrinkles on the input face image.
    2) Beautify: Removes facial marks.

    Take any of the color photo of a face and implement any (or both) of the above functionality.
e. Show the impact of multiple passes of the smoothing filter of same size. Derive your conclusion on image quality and maximum number of passes of filter? What happens if infinite(read very high!) number of passes are applied? Will it change image quality?