Lab Assignment-07

Date- 6/3/18

1. Take an image of your choice. Do the unsharp masking for the same. Use Gaussian and averaging for blurring. Create the Gaussian kernel on your own and show it for different value of σ. Now use those to find the sharpened image.

2. Take an image of your choice. Do the high-boost filtering for the same. Use Gaussian and averaging for blurring. Create the Gaussian kernel on your own and show it for different value of σ. Now use those to find the sharpened image.
   (Mark the similarity and difference between unsharp masking and high boost filtering)

3. Take an image of your choice. Find the gradient image of the same. Find the direction matrix and round it off to the nearest 45 degree.
   (i.e if Θ = 35 degree round it off to 45
   if Θ = 55 degree round it off to 45
   if Θ = 105 degree round it off to 90)