## CPEG 585 - Assignment #2

Due date: Friday, February 10, 2018

- a) Derive the kernels for the following convolution filters:
- 1. Identity
- 2. Average (Low pass)
- 3. High Pass
- 4. Sharpening
- 5. Gaussian
- 6. First derivative (Gradient)
- 7. Second Derivative (Laplacian)

Write the code for testing the above kernels (starting code for convolution filters is provided on the web site). Try to enhance the code so that a user can enter any kernel and see the effect of it on the image. Show results of above convolution filters on some images.