CPEG 585 - Assignment #3

- 1. Implement the Laplacian of Gaussian (LoG) using a two step approach i.e., apply the Gaussian kernel and then compute the Laplacian of the image.
- 2. Implement the LoG using the combined kernel approach where the kernel is given by:

$$LoG(x,y) = \frac{-1}{\pi\sigma^4} (1 - \frac{x^2 + y^2}{2\sigma^2}) e^{\frac{-(x^2 + y^2)}{2\sigma^2}}$$

Test 1 and 2 approaches on different images.

- 3. Implement the Histogram Equilization Algorithm and test on a few different images.
- 4. Use OpenCV to test Canny Edge Detection in Python.
- 5. Use OpenCV to test Harris Corner Detection in Python.