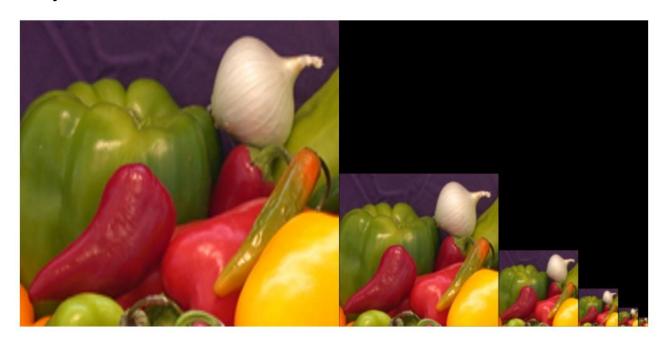
ASSIGNMENT 2

Shyam Nandan 20172088

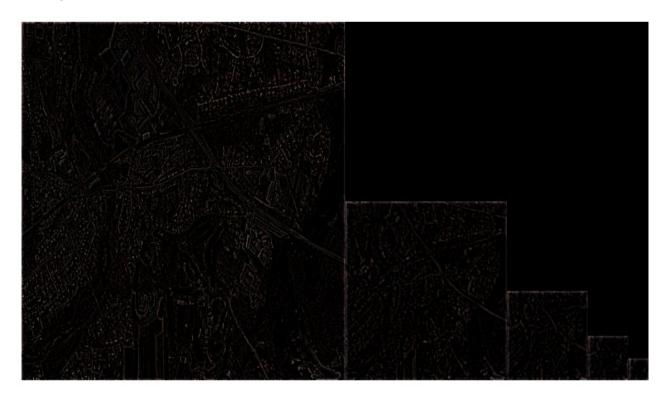
Question 1 :A: Gaussian & Laplacian Pyramid

Gaussian Pyramid



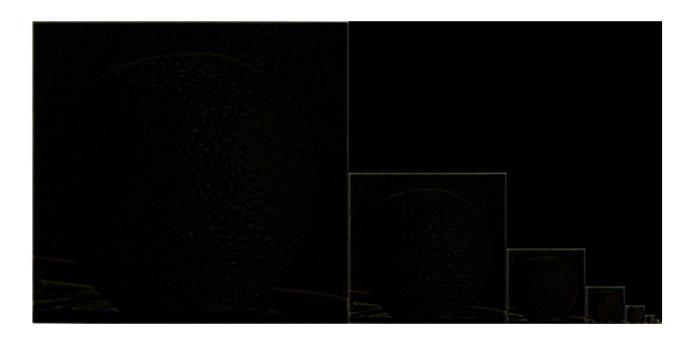


Laplacian Pyramid

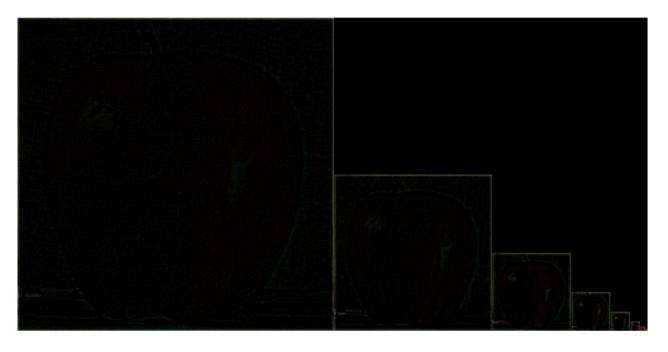




1B: Image blending with Laplacian Pyramid (Case 1) Laplacian Pyramid of first Image

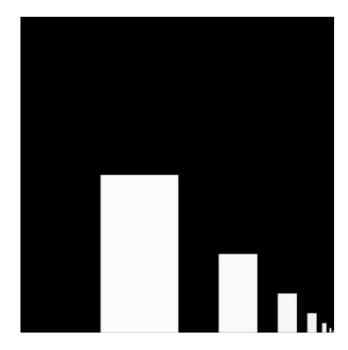


Laplacian Pyramid of Second Image

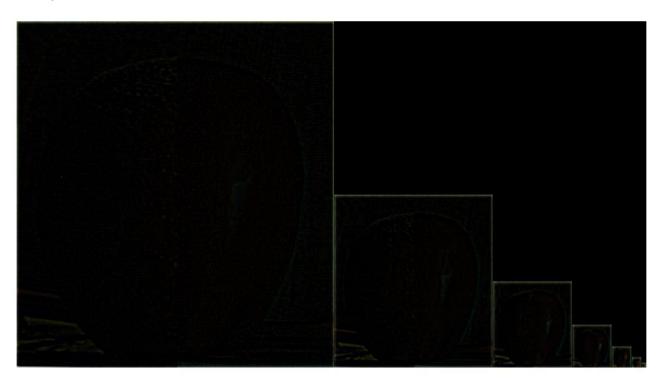


Gaussian Pyramid of Mask





Resultant Pyramid



Resultant Image



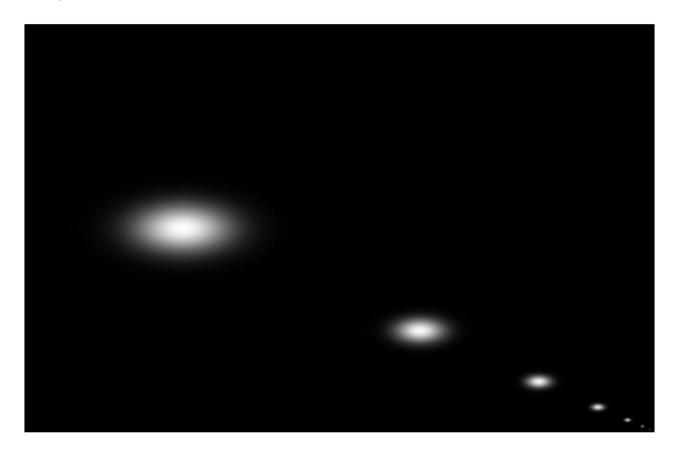
Case 2:
Laplacian Pyramid of first Image



Laplacian Pyramid of Second Image



Gaussian Pyramid of Mask

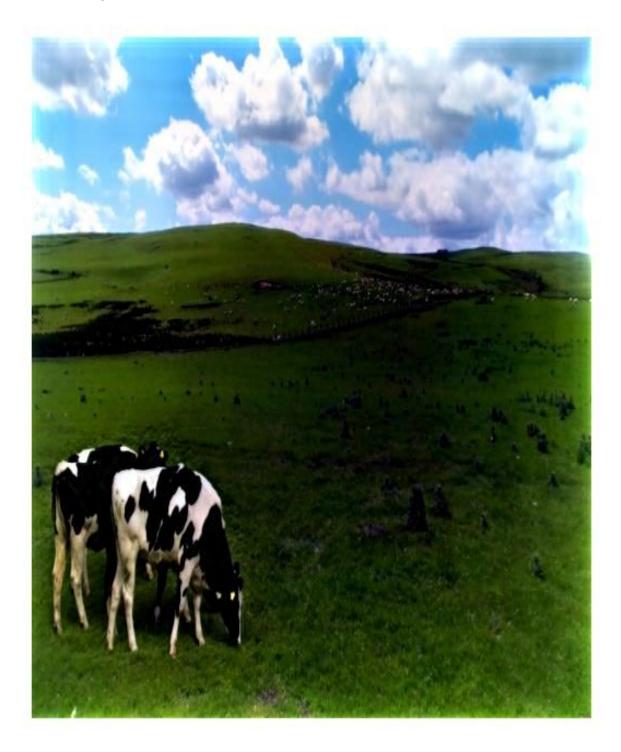


Resultant Pyramid

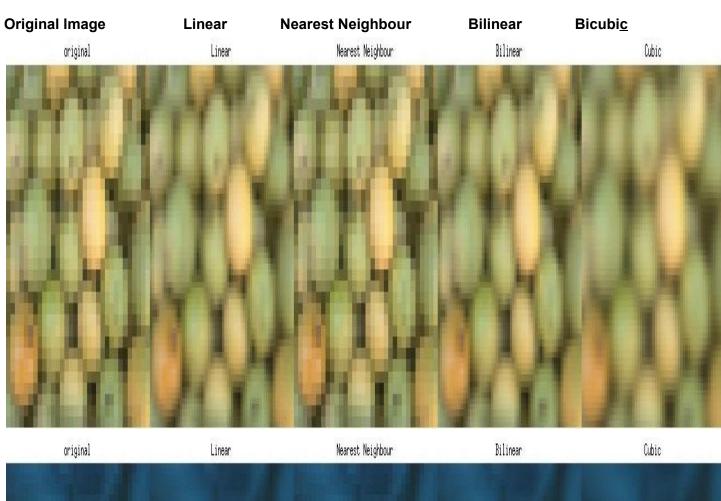


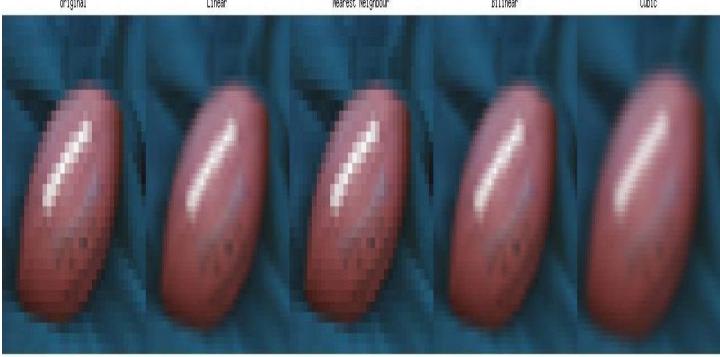


Case 3 : Blended Image



C. Image up-sampling

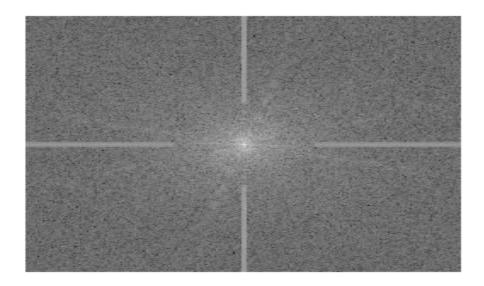




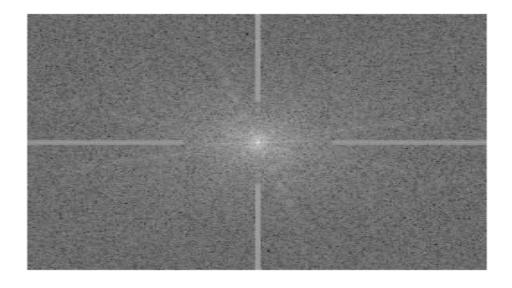
Problem 2 FFT & Frequency filters:

A: Fast Fourier Transform

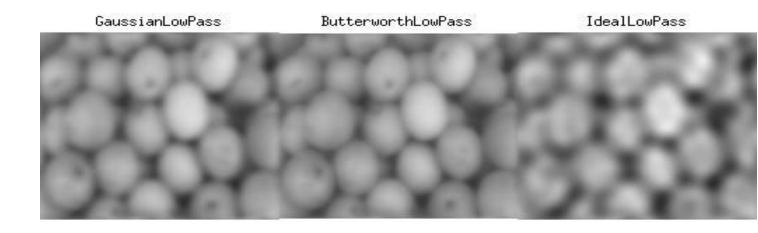
Matlab Output

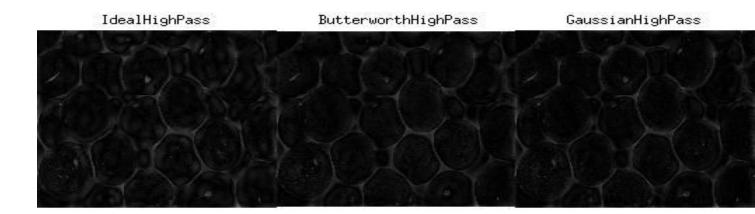


Implemented Output

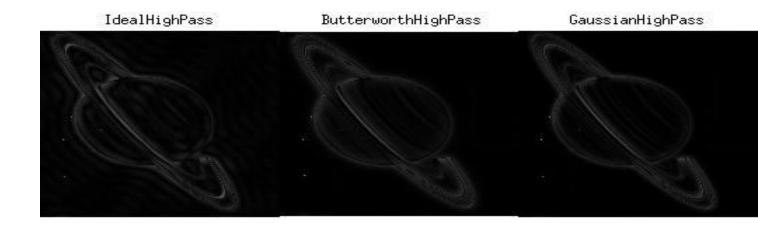


B:Low/High Pass filter: Ideal, Butterworth and Gaussian

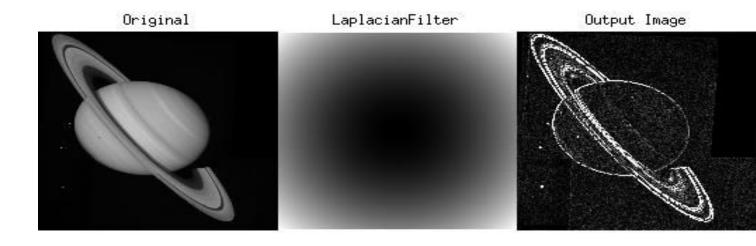


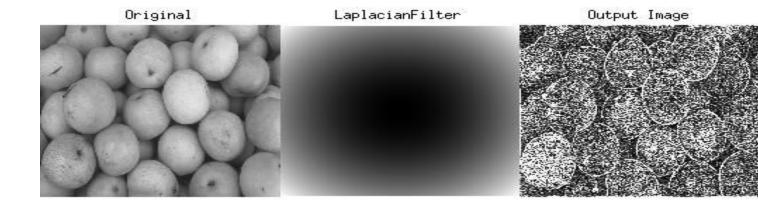






C: Laplacian Filter





D:Notch Pass/Reject filter

