Fourth Year- Systems and Biomedical Engineering department.
Faculty of Engineering- Cairo University.

Computer Vision

TASK #1

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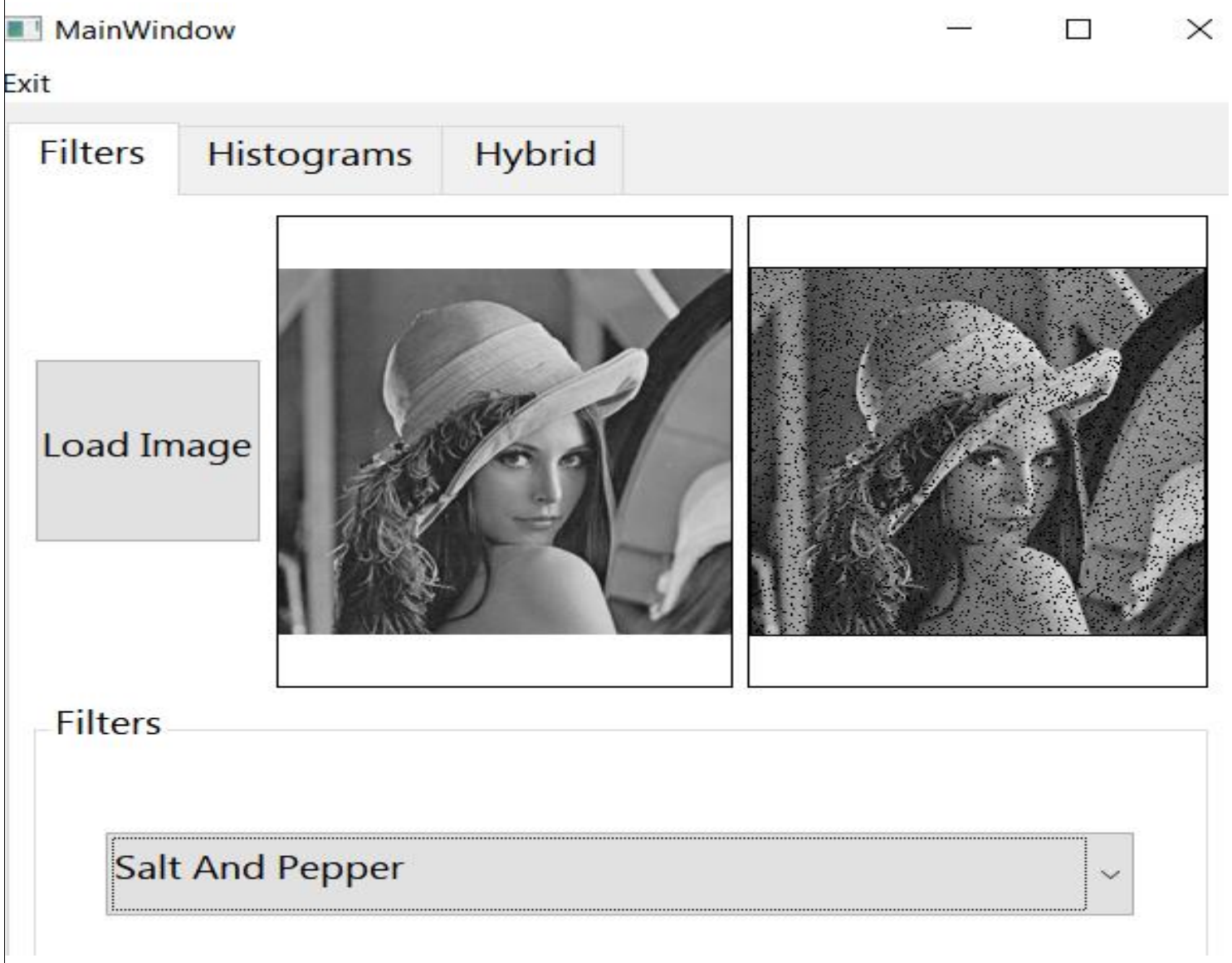
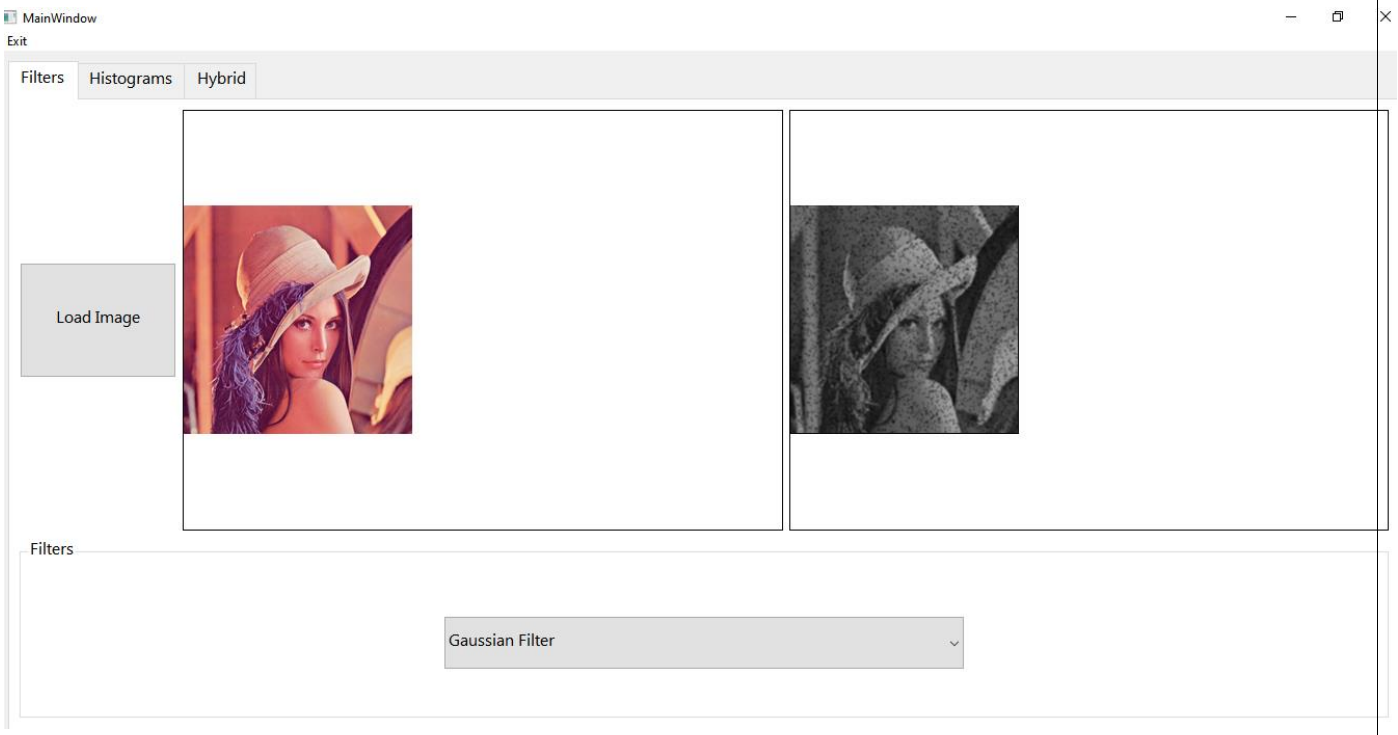
1.Add additive noise to the image: We added Salt & Pepper noise:



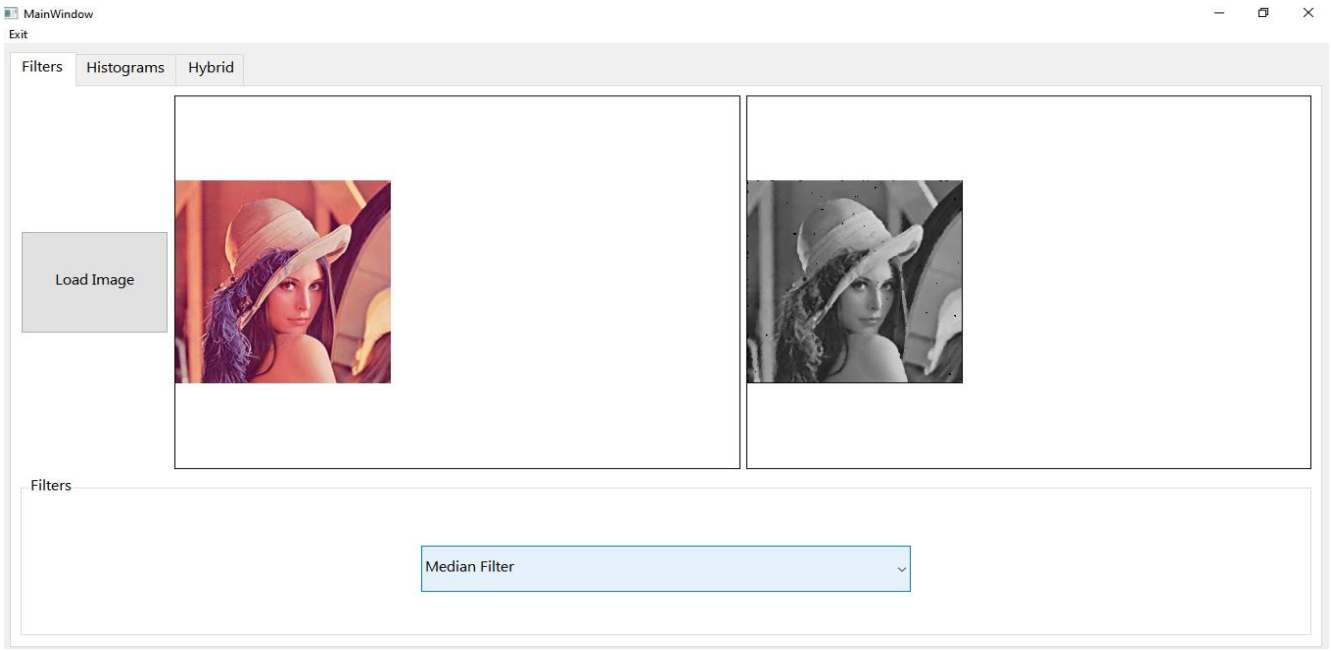
2. Filter the noisy image using the following low pass filters.

1. Gaussian filter



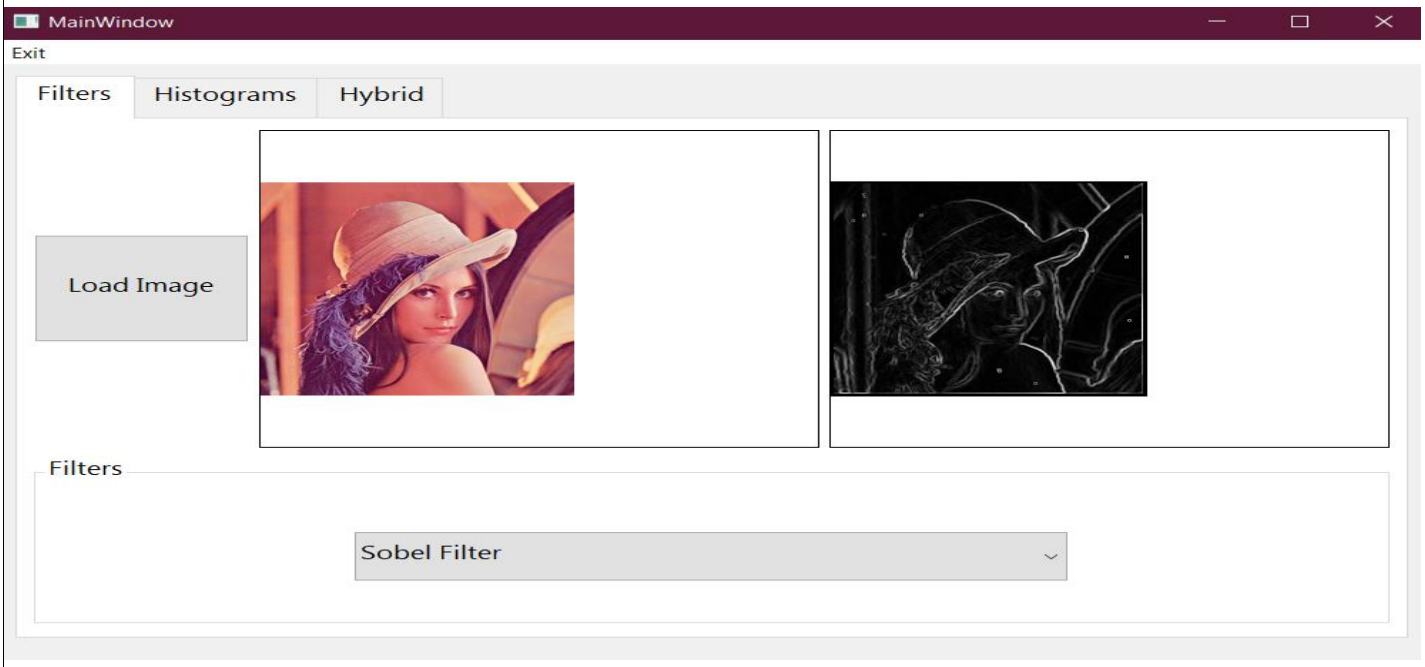
2. Average Filter

3. Median Filter

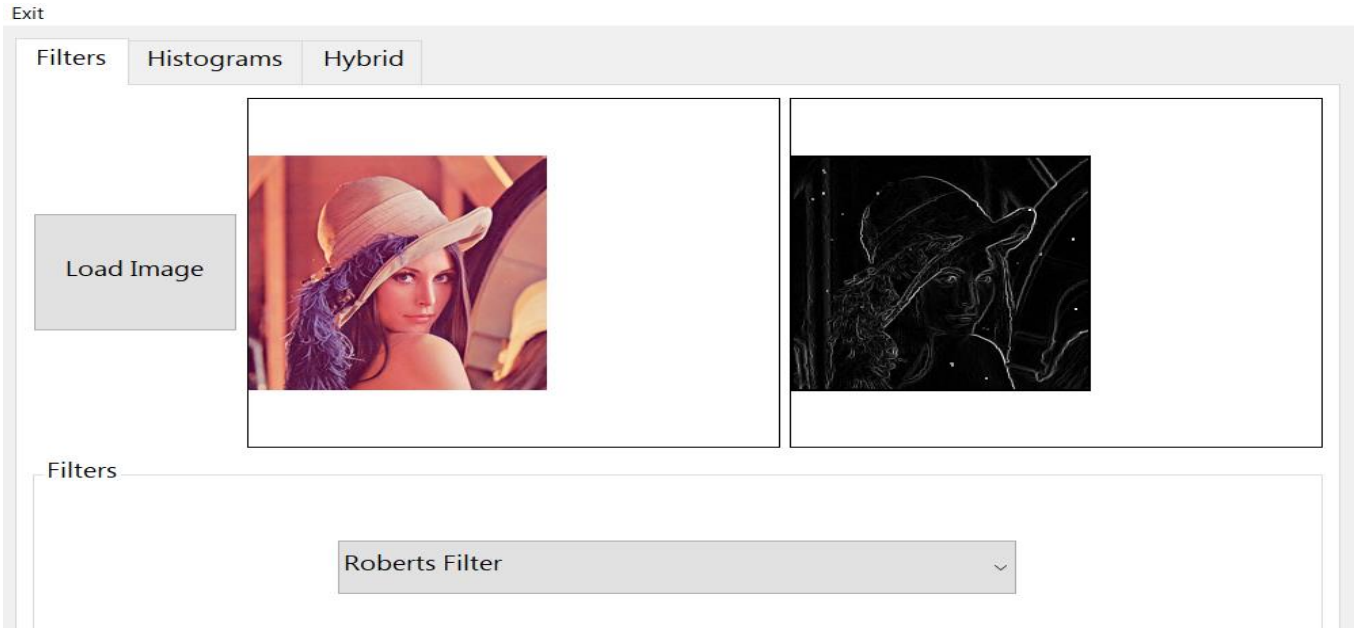


3. Edge Detection using High pass filter:

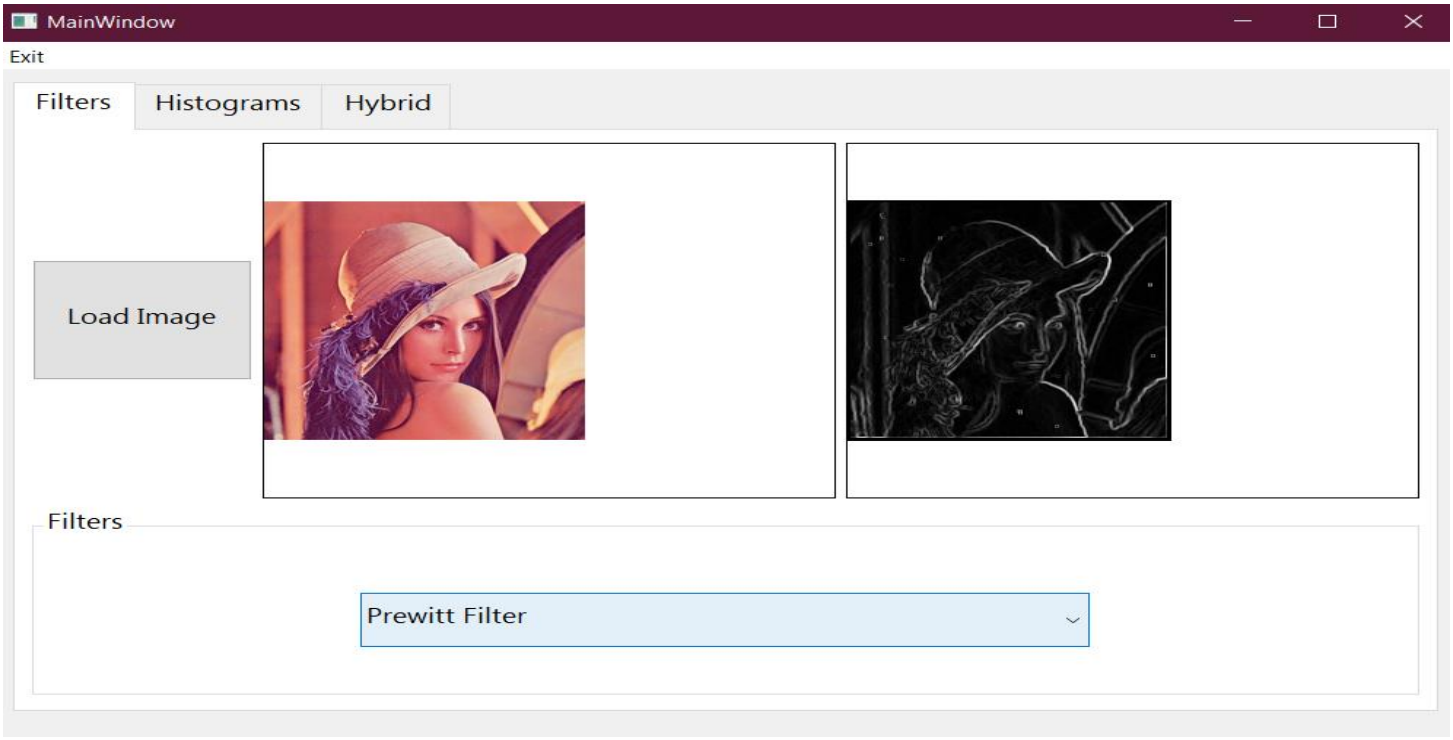
1. Sobel Filter



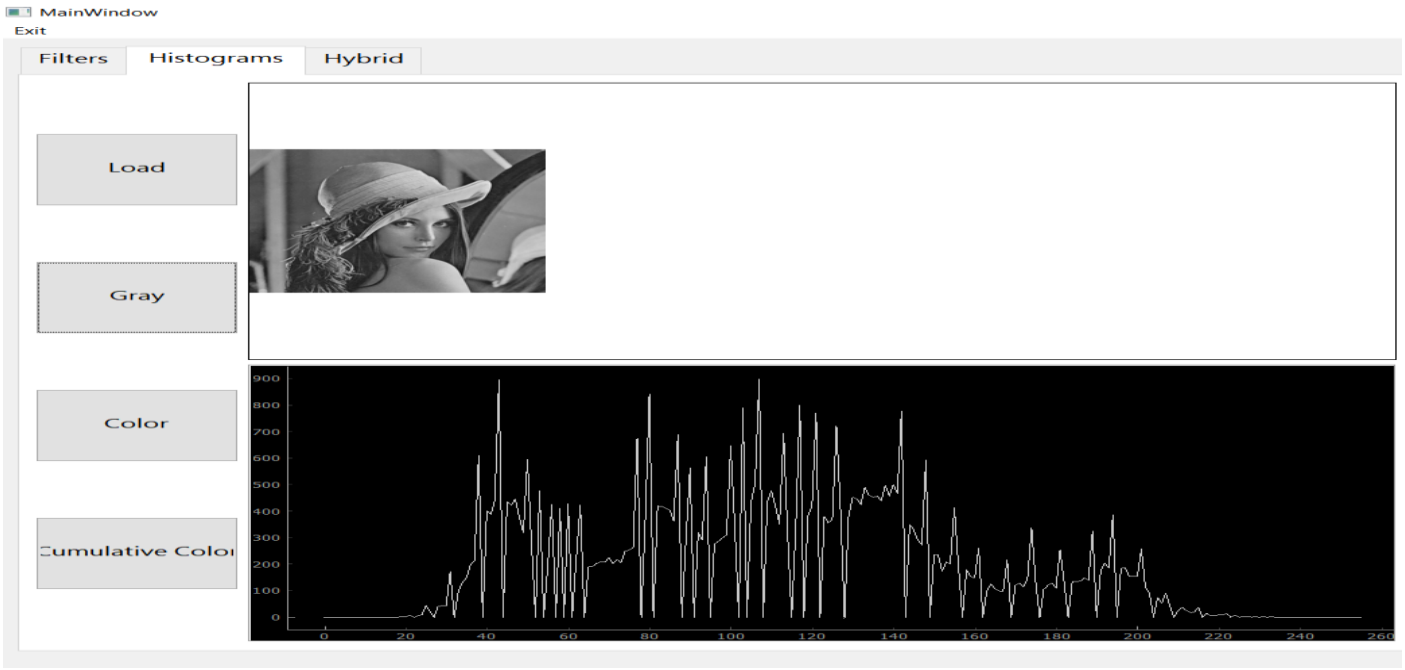
2. Roberts Filter



3. Prewitt Filter

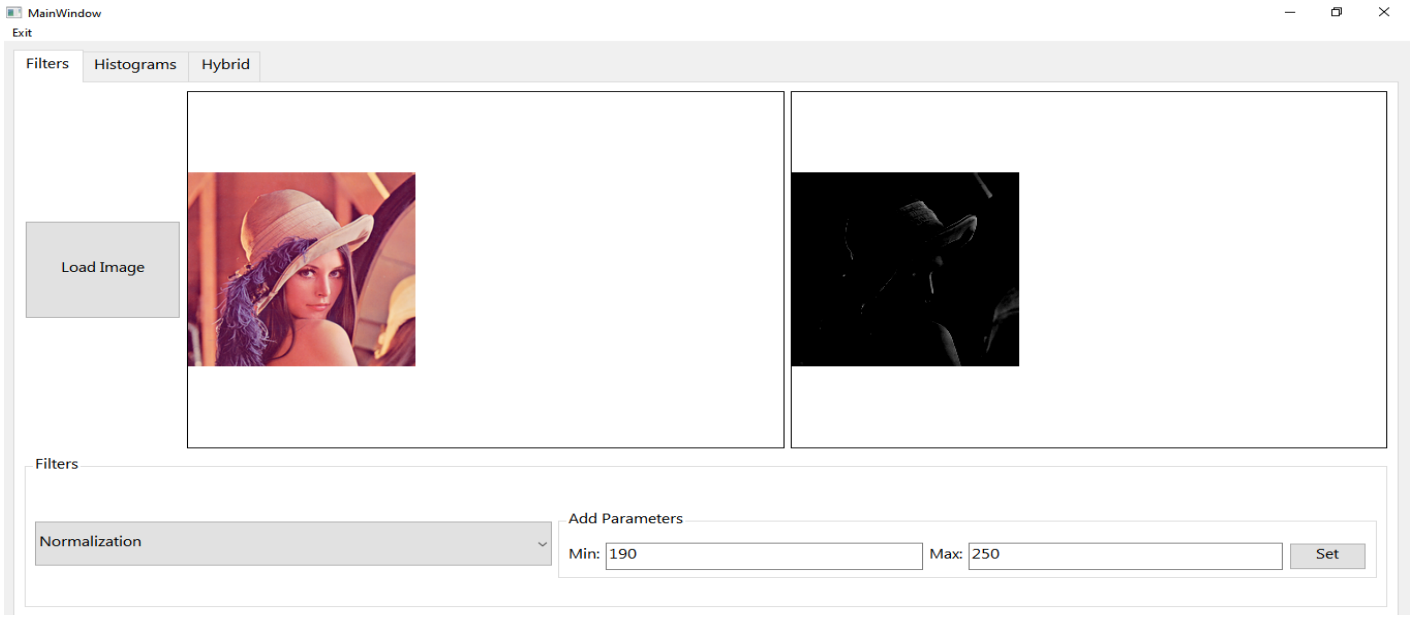


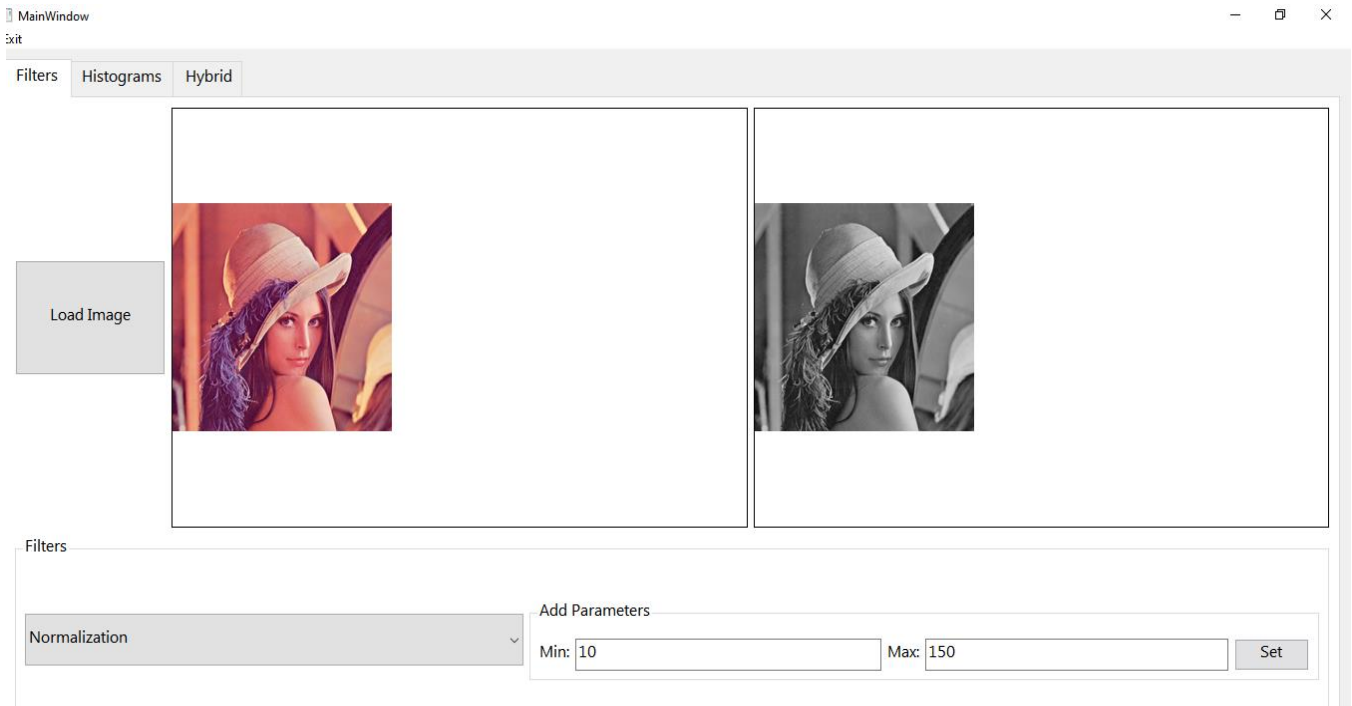
4.Draw histogram and distribution curve



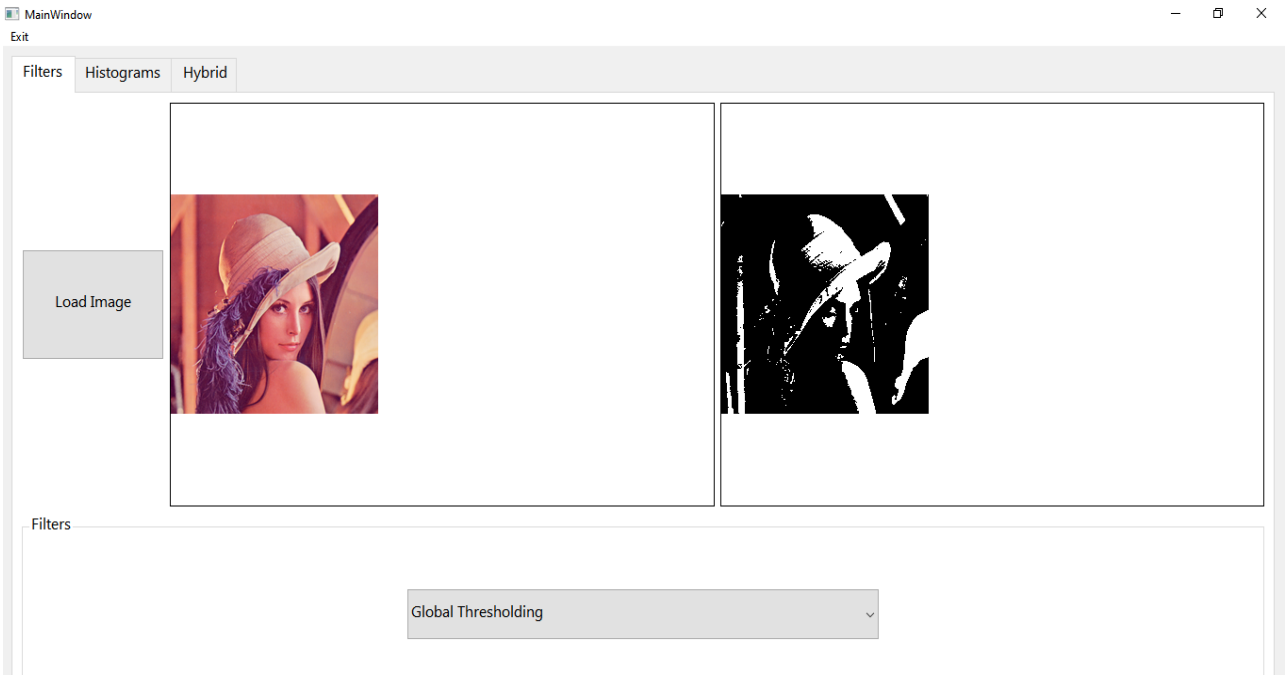
5.Equalize the image

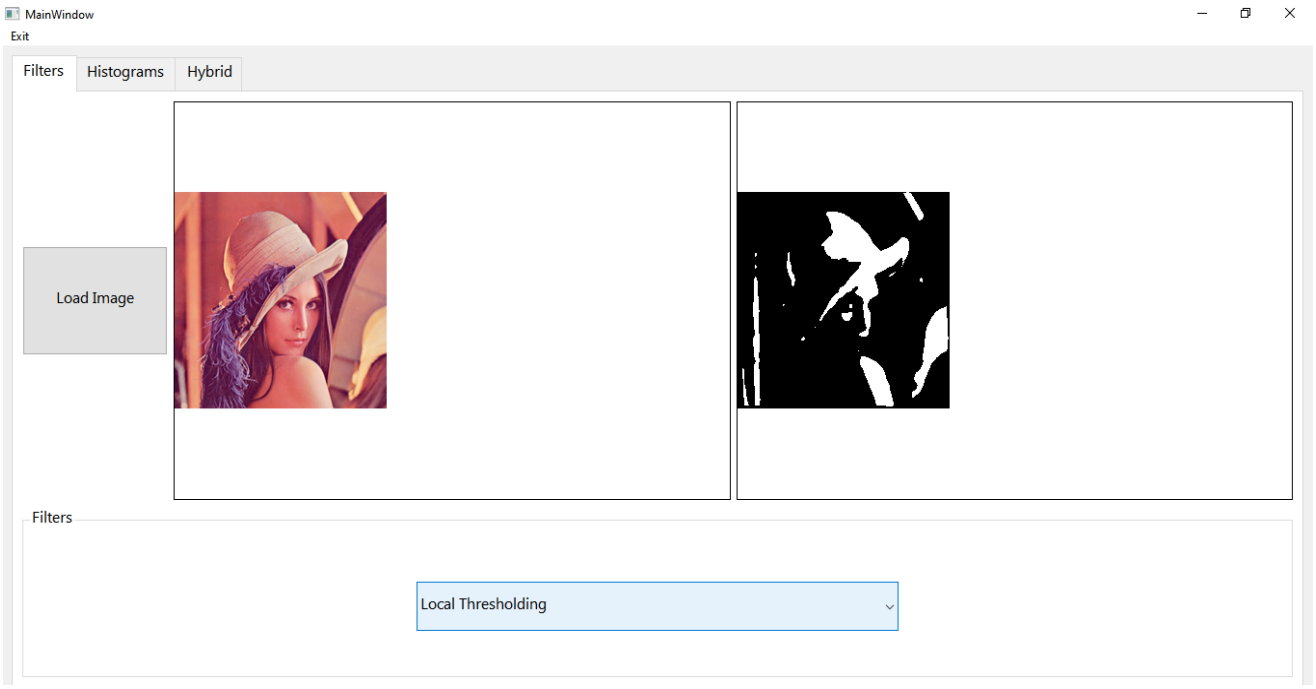
6. Normalize the image



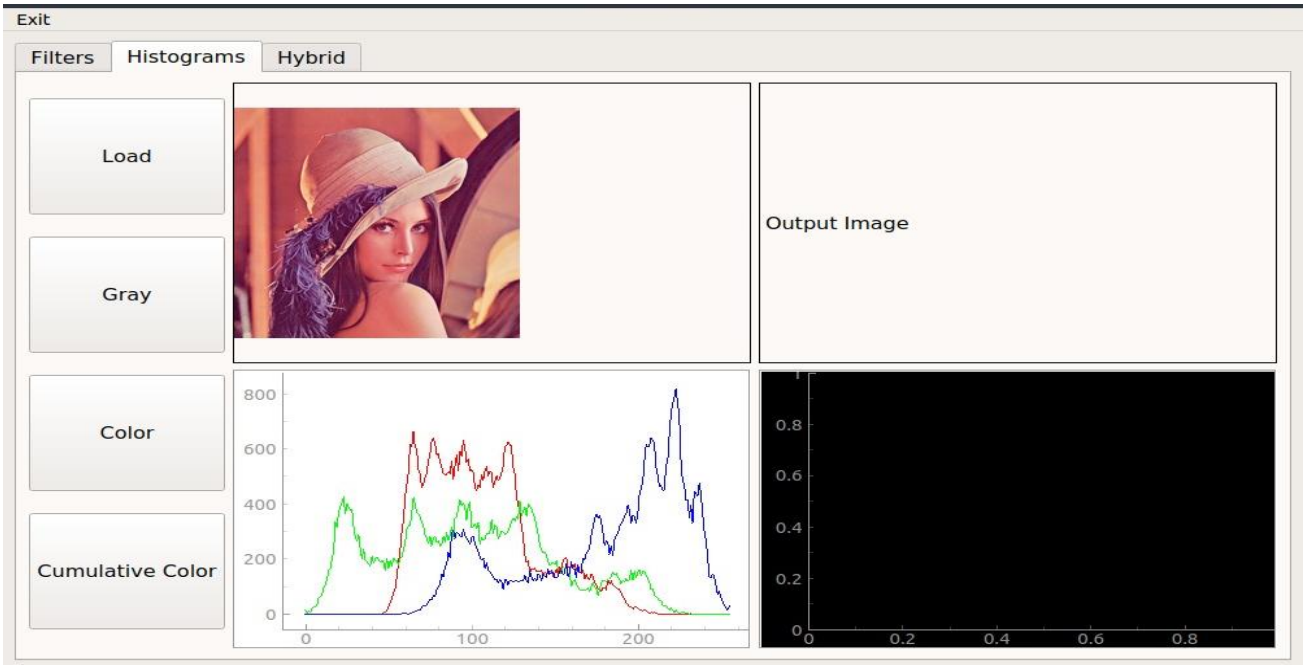


7.Global and Local Threshold with Tth = 150

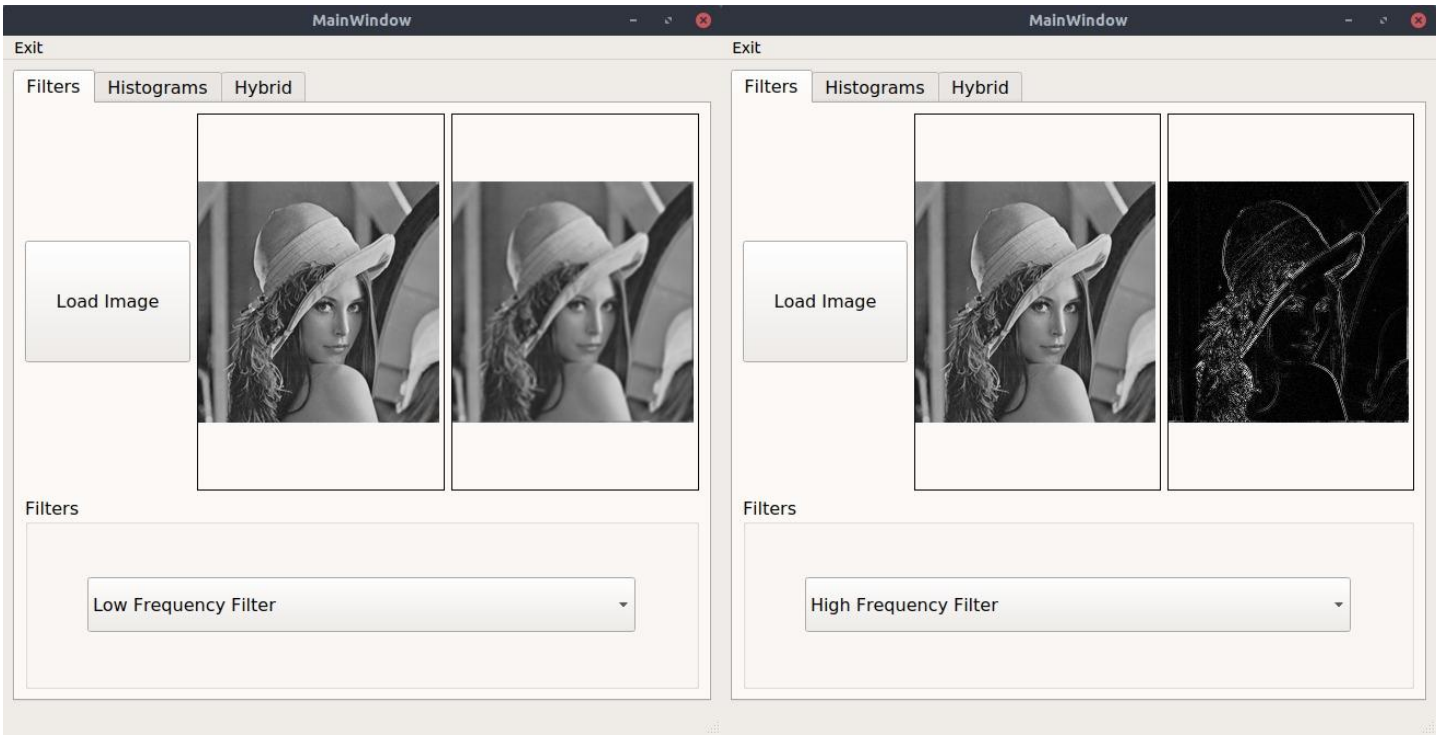




8.RGB Histogram(Normal/Cumulative)



9.FFT filters(high/ low pass)



10.Hybrid Image: