BML735 Practical Assignment 2

Note: Submit file under the following name: Practical2\_Name\_ID.pdf with code and inferences.

Q1) Starting from the Gaussian noise (mean 0, σ = 13) corrupted image, compute both mean filter and Gaussian filter smoothing at various scales and compare each in terms of noise removal vs loss of detail. How would you select the correct σ for an image?

Q2) Add speckle noise to image and comment on which filter works best to remove this noise.

Q3) Demonstrate the effect of removing high-frequency values/coefficients on the quality of an image (Brain image).

Q4) Add motion blur and gaussian noise to image and restore the image by using Weiner filer. Comment on the image quality after image restoration.