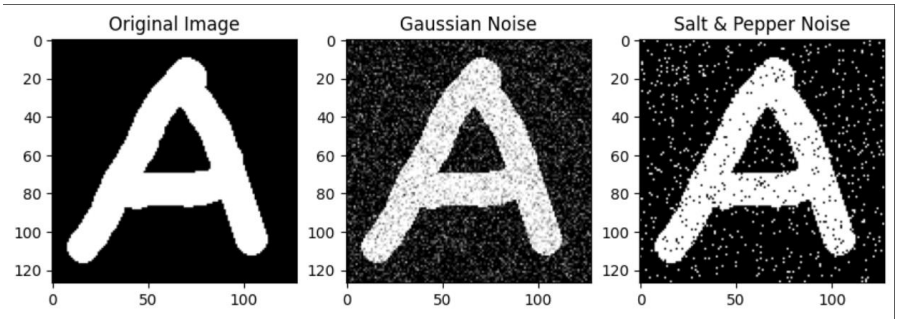
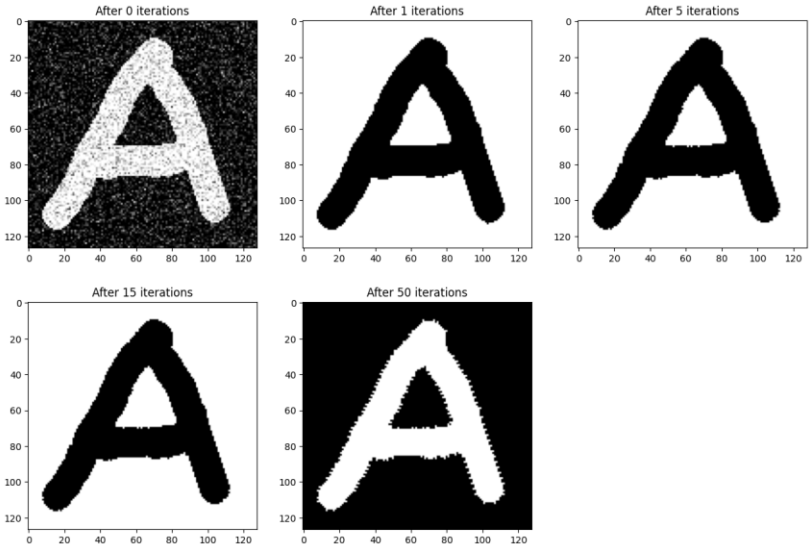
Exercise 5

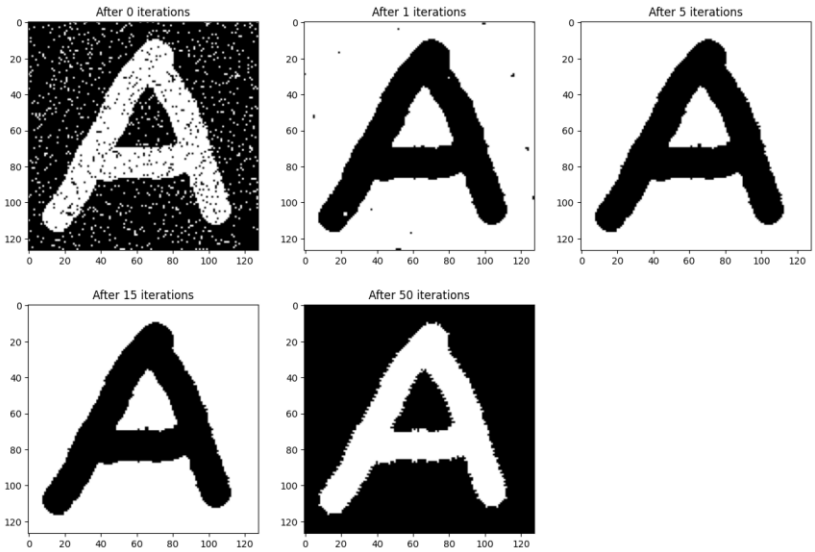
1. Plots for the input image with gaussian noise and Salt & Pepper noise



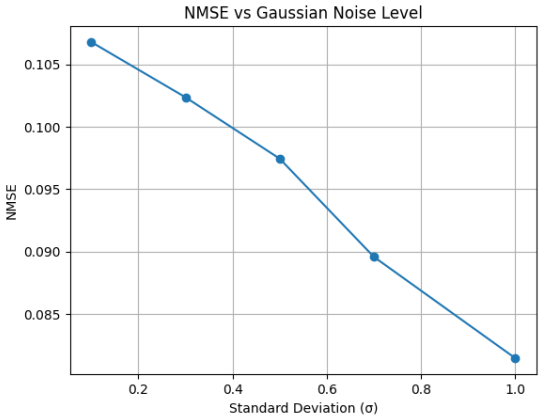
2. ICM algorithm implemented.
3. Input image after [0,1,5,15,50] iterations.
   a. Gaussian Noise:

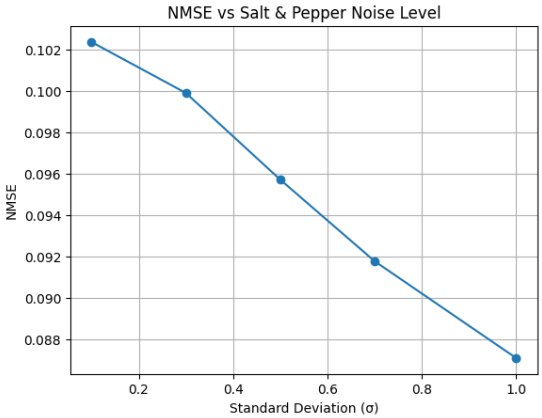


   b. Salt & Pepper Noise:



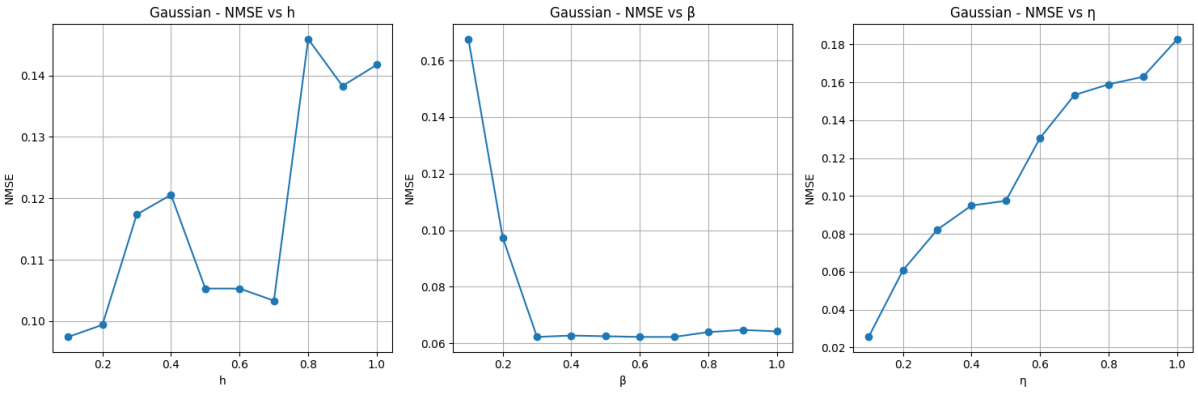
4. Plot of NMSE:



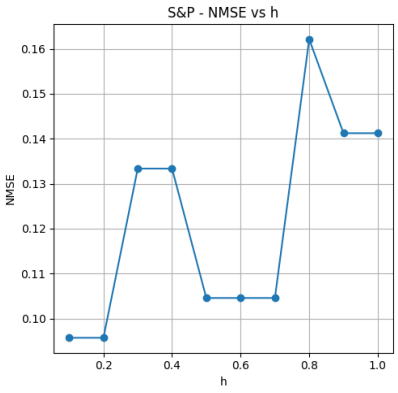


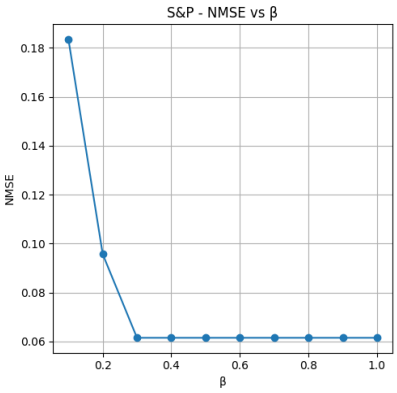
5. Task 6 & 7 (Varying beta, h and eta)

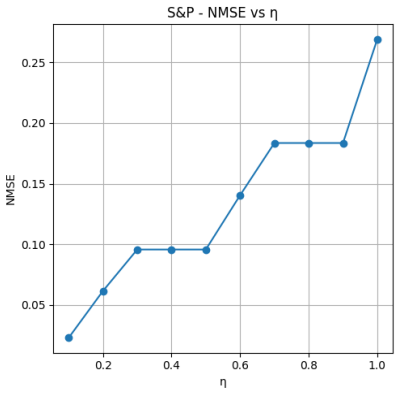
   a. Assume Gaussian Noise



   b. Assume S&P noise







6. Task 8:
   a. H is responsible for individual pixels. As H increases, there's a possibility that noise is still existing

b. Beta is responsible for the smoothness. However if beta increases, we might miss out on some details
c. Eta is responsible for noisy input. As eta increases, noise might still be there.