

Q2 Report

Original image



Original Barbara Image

Noisy image



Image with added Noise

Part(a) reconstruction with $\lambda = 1.0$ and $\text{RMSE} = 0.110$

Reconstructed Image with RMSE: 1.101488e-01



Part(a) reconstruction with $\lambda = 0.1$ and $\text{RMSE} = 0.054$

Reconstructed Image with RMSE: 5.493311e-02



Part(b) reconstruction with RMSE = 0.059

Reconstructed Image with RMSE: 5.928579e-02



Part(c) reconstruction with RMSE = 0.195

Reconstructed Image with RMSE: 1.952059e-01



Part (d):



