Rohan Chandra - hmwk9 Solutions

Question 2

The residual curve for Logistic regression is below:
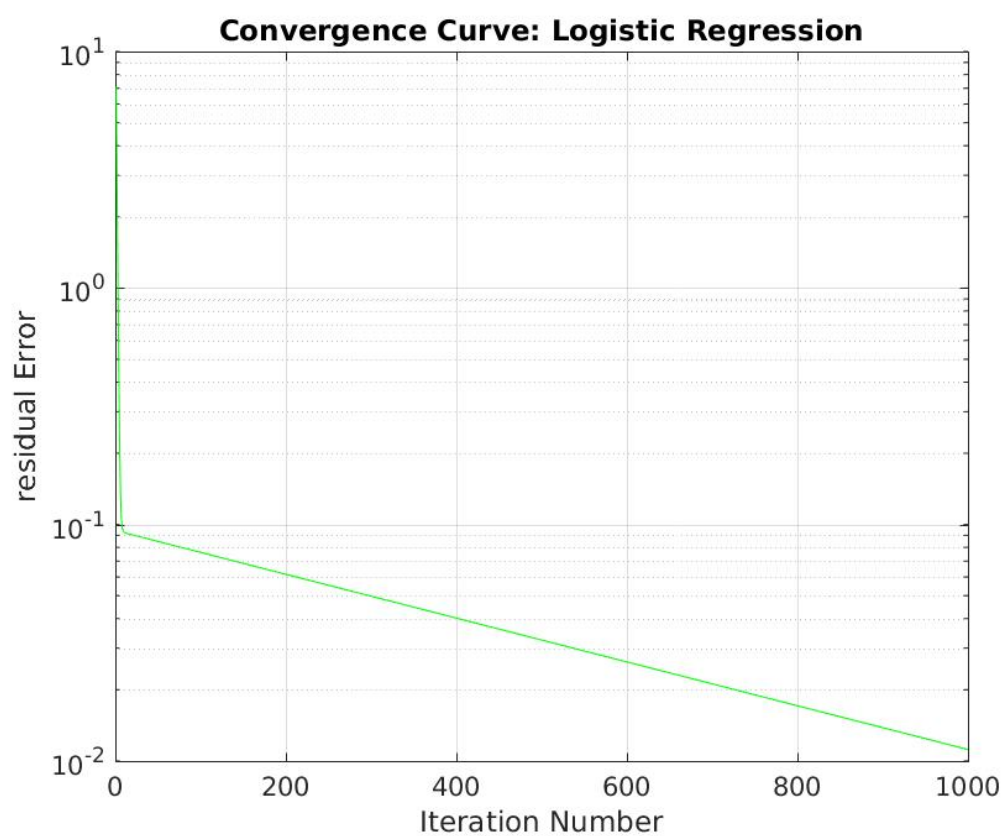

Figure 1: Logistic Regression convergence plot
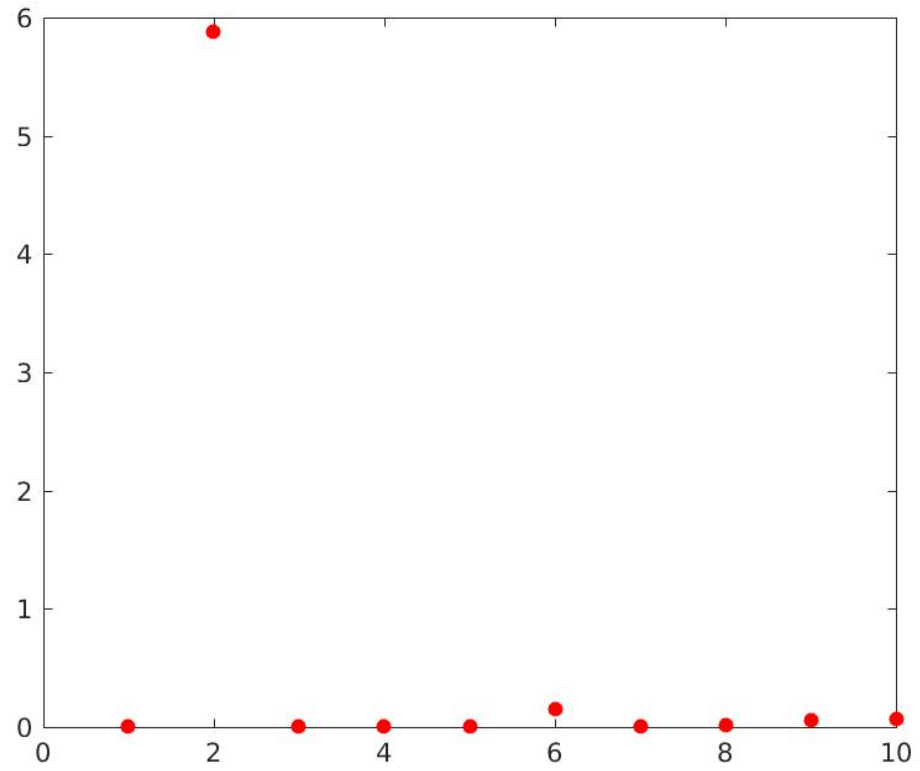
Figure 2: Logistic Regression Solution plot

Question 3
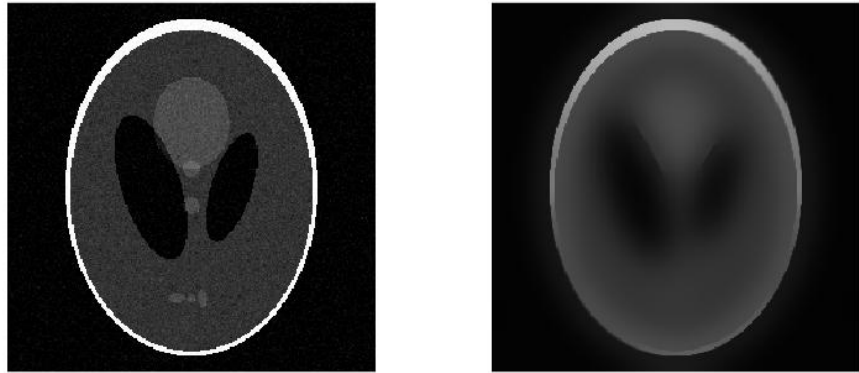
The residual curve for Total Variation is below:
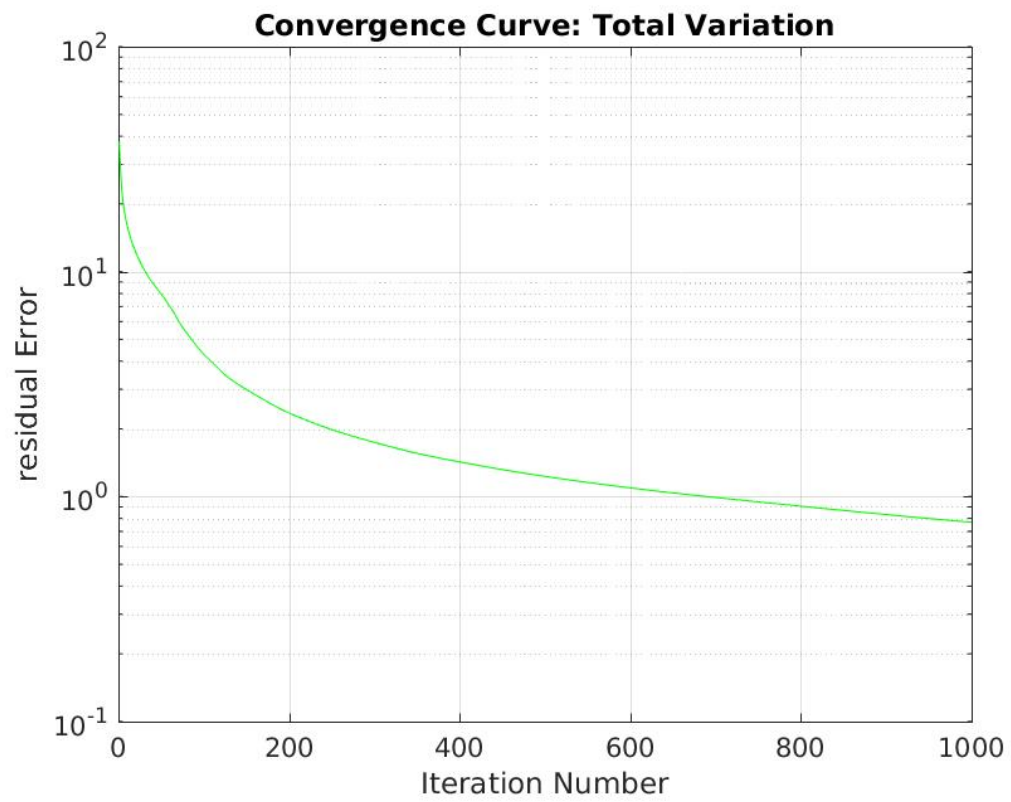
Figure 3: Total Variation plot

Figure 4: Total Variation convergence plot

Question 4

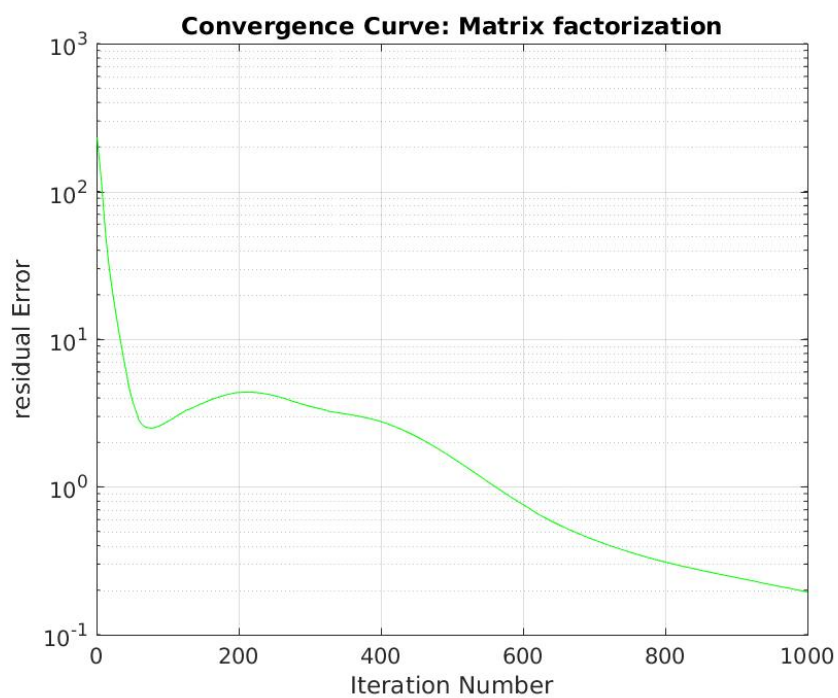The residual curve for Matrix Factorization is below:

Figure 5: Matrix factorization convergence plot

Yes the recovery method works. Yes, it depends on how you initialize X and Y. It doesn't work if you inititalize both X and Y to zero.