1. Explain Principal Component Analysis in maximum two pages

2. Apply PCA to the data of the file "PCATutorial.txt" and try to plot Comp1 vs. Comp2 and Comp1 vs. Comp3.

3. Apply PLS to the data of the file "PLSTutorial.txt" by considering MEDV as response variable and others as predictor variables. Plot measured data vs. predicted results. For the details of data, please refer to UCI Machine Learning Repository(https://archive.ics.uci.edu/ml/datasets/Housing).