MachineLearning_assignment

1. A) Least Square Error
2. A) Linear regression is sensitive to outliers
3. B) Negative
4. B) Correlation
5. C) Low bias and high variance
6. A) Descriptive model
7. D) Regularization
8. A) Cross validation
9. A) TPR and FPR
10. A) True
11. B) Apply PCA to project high dimensional data
12. A) We don't have to choose the learning rate. B) It becomes slow when number of features is very large. C) We need to iterate.

13. regularization is the method we use in machine learning to minimize coefficient estimates towards zero to avoid underfitting or overfitting the model and especially overfitting and it is used particularly in linear regression.

14. algorithms used for regularization are lasso and ridge regression

15. the term error present in linear regression equation is (MSE) mean square error and it is calculated by measuring the distance of observed values y from predicted value of train and test x values and then squaring each of these distances and finally find the mean of squared distances