Machine Learning Assignment-1

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. B) Descriptive model
7. C) Regularization
8. D) SMOTE
9. A) TPR & FPR
10. B) False
11. B) Applying 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.

13. Overfitting is a phenomenon that occurs when a Machine learning model is constraint to training set and not able to perform well on unseen data. Regularization is a technique used to reduce the error by fitting the function appropriately on the given training set and avoid overfitting.

14. LASSO and Ridge regression is used for Regularization.
15. The difference between the actual value of the dependent variable and value of the dependant variable predicted from the regression line.