**Assignment 4**

**Aim:** Classification Implementation Using Decision Tree.

**Objective:**

To understand and apply Decision Tree for Classification

**Problem Statement:**

Trip History Analysis: Use trip history dataset that is from a bike sharing service in the United States. Predict the class of user.

**Theory:**

Write a Pseudo Code for Decision Tree Induction Algorithm

**Input:** Dataset

**Output:** Predicted Class labels, Accuracy of Classifiers

**Platform:** Windows/Ubuntu

**Software Used :** Anaconda with Python 3.0

**Conclusion:** Thus, we have learned Decision Tree Classification Algorithm

**FAQ’s:**

1] How Decision Tree is used for Classification?

2] How to decide the Root for the Tree Creation?

3] Explain Information gain Measures for Attribute selection

4]State and Justify advantage and disadvantages of Decision Tree

5]Describe different library functions used along with parameter