**Experiment 7: Decision Tree**

**Aim**

To implement a decision tree classifier.

**Procedure**

1. Import dataset and split into training/testing.  
2. Train decision tree classifier.  
3. Visualize the tree and evaluate accuracy.

**Code**

from sklearn import tree  
from sklearn.datasets import load\_iris  
from sklearn.model\_selection import train\_test\_split  
  
iris = load\_iris()  
X\_train, X\_test, y\_train, y\_test = train\_test\_split(iris.data, iris.target)  
clf = tree.DecisionTreeClassifier()  
clf.fit(X\_train, y\_train)  
print("Accuracy:", clf.score(X\_test, y\_test))

**Output**

