# 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

C:\Users\asus\AppData\Local\Temp\ksohtml20108\wps3.jpg

### **RESULT**

Decision tree classifier is implemented