

## Experiment-10

### Implementation of Decision Tree Classification Techniques

#### AIM

To implement a decision tree classification technique for gender classification using python.

#### PROGRAM

```
from sklearn import tree
# Using DecisionTree Classifier
clf = tree.DecisionTreeClassifier()

X = [[181, 80, 91], [182, 70, 92], [183, 100, 92],
      [184, 200, 73], [185, 300, 94], [186, 400, 75]]
Y = ['male', 'male', 'female', 'male', 'female',
      'male']
clf = clf.fit(X, Y)

prediction_f = clf.predict([[181, 80, 71]])
prediction_m = clf.predict([[183, 100, 92]])

print(prediction_f)
print(prediction_m)
```

#### OUTPUT

['male']

['female']

