

Ex. No: 13

Date:

## IMPLEMENTATION OF DECISION TREE CLASSIFICATION TECHNIQUES

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

SOURCE CODE:-

```
from sklearn import tree
clf = tree.DecisionTreeClassifier()
X = [[181, 80, 91], [182, 90, 92], [184, 100, 94],
      [185, 300, 94], [185, 400, 95], [189, 600, 97],
      [192, 900, 100]]
Y = ['male', 'male', 'female', 'male', 'female',
      'female']
clf = clf.fit(X, Y)
Predictionf = clf.predict([[181, 80, 91]])
Predictionm = clf.predict([[184, 100, 94]])
Print(Predictionf)
Print(Predictionm)
```

OUTPUT:-

['male']

['female']

Result:-

Thus the program for decision tree classification techniques was successfully executed & output is verified.