

# **RESULT:** Thus the above execution of the algorithm has been successfully executed.

# **EX.NO: 13**

# IMPLEMENTATION OF DECISION TREE CLASSIFICATION TECHNIQUES

#### AIM:

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

# **EXPLANATION:**

- Import tree from sklearn.
- Call the function DecisionTreeClassifier() from tree
- Assign values for X and Y.
- Call the function predict for Predicting on the basis of given random values for each given feature.
- Display the output.

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### **SOURCE CODE:**

from sklearn import tree #Using DecisionTree classifier for prediction clf = tree.DecisionTreeClassifier()

```
#Here the array contains three values which are height, weight and shoe size X = [[181, 80, 91], [182, 90, 92], [183, 100, 92], [184, 200, 93], [185, 300, 94], [186, 400, 95], [187, 500, 96], [189, 600, 97], [190, 700, 98], [191, 800, 99], [192, 900, 100], [193, 1000, 101]] <math display="block">Y = [\text{'male', 'male', 'female', 'male', 'female', 'male', 'female', 'male', 'female', 'male', 'female', 'male', 'female', 'male', 'gemale', 'male', 'female', 'female', 'male', 'female', 'male', 'female', 'male', 'female', 'female', 'female', 'male', 'female', 'male', 'female', 'fema
```

#### **OUTPUT:**

['male']
['female']

**RESULT:** Thus the above execution of the algorithm has been successfully executed.

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