Implementation of Decision Tree classification Techniques

Aim:

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

Code:

```
from Sklearn import tree
clf = tree.DecisionTreeClassifier()

X = [[181, 80, 91], [182, 90, 92], [182, 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]]

Y = ['Male', 'male', 'female', 'male', 'female', 'male', 'female', 'male', 'female', 'male']
clf = clf.fit(X, Y)

Prediction = clf.predict([[181, 80, 91]])
predictionnm = clf.predict([[183, 100, 92]])

Print(prediction)
print(predictionnm)
```

Output

```
['Male']
['Female']
```