

Ex: No: 13

Date:

## Implementation of Decision Tree classification techniques

Program code:

```
from sklearn import tree
```

```
clf = tree.DecisionTreeClassifier()
```

```
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]]
```

```
Y = ['male', 'male', 'female', 'male',  
     'female', 'male', 'female', 'male']
```

```
clf = clf.fit(X, Y)
```

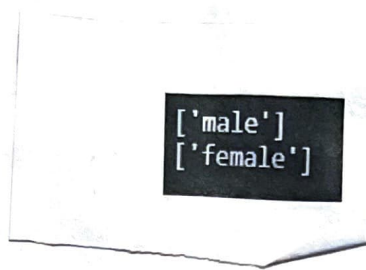
```
prediction_f = clf.predict([[181, 80, 91]])
```

```
prediction_m = clf.predict([[183, 100, 92]])
```

```
print(prediction_f)
```

```
print(prediction_m)
```

output :



Result :

Thus the program is successfully executed & the output is verified.

