

Ex: NO: 14

## 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], [183, 100, 92],
```

```
     [185, 300, 94], [186, 400, 95], [186, 500, 96]
```

```
     [189, 600, 97], [190, 700, 97], [191, 800, 98]]
```

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

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

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

```
print(Predictionsf)
```

```
print(Predictionsm)
```

Output:-

['male']

['Female']

