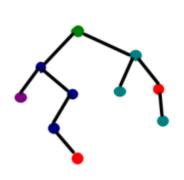
EXNO:9

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## IMPLEMENTATION OF DECISION TREE CLASSIFICATION TECHNIQUES

**AIM:** To implement a decision tree classification technique for gender classification using python



## **CODE:**

```
from sklearn.tree import DecisionTreeClassifier

import numpy as np

X = np.array([
      [170, 65, 42],
      [180, 75, 44],
      [160, 50, 38],
      [175, 70, 43],
      [165, 55, 39],
      [185, 80, 45]
```

```
y = np.array([0, 1, 0, 1, 0, 1])

clf = DecisionTreeClassifier()

clf.fit(X, Y)

new_data = np.array([[168, 52, 38]])

prediction = clf.predict(new_data)

print("Predicted gender:", "Male" if prediction[0] == 1 else "Female")
```

## **OUTPUT:**

```
## 200700026 Decision Recognisation

## 20070026 Decision Recognisation

## 200700026 Decision Recognisation

## 200700026 Decision Recognisation

## 20070026 Decision Re
```