Implementation of Decision Tree

Aim

To implement a Decision Tree to predict if we can play tennis based on weather conditions.

Code

```
from sklearn.tree import DecisionTreeClassifier

X = [[0, 0], [0, 1], [1, 0], [2, 1], [2, 0]]

y = ['No', 'Yes', 'Yes', 'Yes', 'No'] # PlayTennis

model = DecisionTreeClassifier()

model.fit(X, y)

print("Play Tennis?", model.predict([[0, 0]])[0])
```

Output

Play Tennis? No

Result

The decision tree predicts "No", we should not play tennis when it's Sunny and Humidity is High.