

Exp. No. 513

## Obj: Implementation of Decision Tree Classification Techniques.

Aim:

To implement a decision tree  
classification technique.

Program:

for sklearn input tree:

clf = tree.DecisionTreeClassifier.

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X = [[x1, 80, 91], [x2, 90, 92],  
[x3, 100, 92], [x4, 200, 93],  
[x5, 300, 94], [x6, 400, 95],  
[x7, 500, 96], [x8, 600, 97],  
[x9, 700, 98], [x10, 800, 99],  
[x11, 900, 100], [x12, 1000, 101]]

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

clf = clf.fit(x, y)

prediction\_f = clf.predict([x11, 80, 91])

prediction\_x = clf.predict([x12, 100, 92])

print(prediction\_f)

print(prediction\_x)

Output:

['mah']

['gah']

Result:

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

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