Page
Date

EX: 10 Implementation of
Date: Decision tree classification
techniques.

Aim:

To implement a decision tree classification techniques for gender classification using python.

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', 'female', 'male']
clf = clf.fit(X, Y)
predictionf = clf.predict([[181, 80, 91]])
predictionm = clf.predict([[183, 100, 92]])
print(predictionf)
print(predictionm)
```

Output:

```
['male']
['female']
```

Result: The program for implementation of decision tree classification tech. is successfully executed

EX: 11
Date:

Aim:
To

Code:
impo
impo
from
from
impor
from
X, Y =
cluster-s
plt.
WCS
for i

init = 'k
random_

plt.p
plt.t
plt.
plt.
plt.s
kmea
means.it