In [2]:
```
# Importing required Libraries

import pandas as pd
from tabulate import tabulate
from sklearn.tree import DecisionTreeClassifier
from sklearn.model_selection import train_test_split
from sklearn.metrics import accuracy_score
import warnings
warnings.filterwarnings("ignore", category=UserWarning)
```

In [3]:
```
# Loading the dummy dataset

data = pd.read_csv(r"movie.csv")
```

In [4]:
```
data

# 1 representa Male
# 0 represents Female
```

Out[4]:

	age	gender	genre
0	20	1	Action
1	23	1	Action
2	25	1	Action
3	26	1	Thriller
4	29	1	Thriller
5	30	1	Thriller
6	31	1	Drama
7	33	1	Drama
8	37	1	Drama
9	20	0	Animation
10	21	0	Animation
11	25	0	Animation
12	26	0	Romantic
13	27	0	Romantic
14	30	0	Romantic
15	31	0	Musical
16	34	0	Musical
17	35	0	Musical

In [5]:
```
# Processing data for out requirement

X = data.drop(columns=['genre'])
Y = data['genre']
```

In [29]:
```
total = 0
n=10
for i in range (0,n):
    XTrain, XTest, YTrain, YTest =train_test_split(X,Y,test_size=0.2)
    model = DecisionTreeClassifier()
    model.fit(XTrain,YTrain)
    prediction = model.predict(XTest)
    score = accuracy_score(YTest, prediction)
    print("Acuracy of our prediction : ", score)
    total += score

avg = total/n
print("\n\nAverage accuracy of our prediction :", avg)
```

```
Acuracy of our prediction :  1.0
Acuracy of our prediction :  1.0
Acuracy of our prediction :  1.0
Acuracy of our prediction :  1.0
Acuracy of our prediction :  1.0
Acuracy of our prediction :  1.0
Acuracy of our prediction :  1.0
Acuracy of our prediction :  0.75
Acuracy of our prediction :  1.0
Acuracy of our prediction :  0.25


Average accuracy of our prediction : 0.9
```