In [1]:

```
import pandas as pd
import numpy as np
```

In [2]:

```
dataset = pd.read_csv("User_Data.csv")
```

In [3]:

```
x = dataset.iloc[:, [2, 3]].values
y = dataset.iloc[:, 4].values
```

In [4]:

```
 sklearn.model_selection import train_test_split
ain, X_test, y_train, y_test = train_test_split(x, y, test_size = 0.20, random_state = 0)
```

In [5]:

```
from sklearn.preprocessing import StandardScaler
sc_x = StandardScaler()
xtrain = sc_x.fit_transform(X_train)
xtest = sc_x.transform(X_test)
```

In [6]:

```
#Fitting Decision Tree classifier to the training set
from sklearn.tree import DecisionTreeClassifier
classifier= DecisionTreeClassifier(criterion='entropy', random_state=0)
classifier.fit(xtrain, y_train)
```

Out[6]:

```
DecisionTreeClassifier(criterion='entropy', random_state=0)
```

In [7]:

```
y_pred = classifier.predict(xtest)
```

In [8]:

```
y_pred
```

Out[8]:

```
array([0, 0, 0, 1], dtype=int64)
```

In [9]:

```
#Creating the Confusion matrix
from sklearn.metrics import confusion_matrix
cm= confusion_matrix(y_test, y_pred)
cm
```

Out[9]:

```
array([[3, 0],
       [0, 1]], dtype=int64)
```

In [10]:

```
from sklearn.metrics import accuracy_score
print ("Accuracy : ", accuracy_score(y_test, y_pred))
```

```
Accuracy :  1.0
```

In [ ]:

```

```