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]:

```
from sklearn.model_selection import train_test_split
X_train, 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]:

```
from sklearn.neighbors import KNeighborsClassifier
classifier = KNeighborsClassifier(n_neighbors=5)
classifier.fit(xtrain, y_train)
```

Out[6]:

```
KNeighborsClassifier()
```

In [7]:

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

In [8]:

```
y_pred
```

Out[8]:

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

In [11]:

```
from sklearn.metrics import classification_report,confusion_matrix
cm= confusion_matrix(y_test, y_pred)
cm
```

Out[11]:

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

In [12]:

```
print (classification_report(y_test, y_pred))
```

```
              precision    recall  f1-score   support

           0       0.75      1.00      0.86         3
           1       0.00      0.00      0.00         1

    accuracy                           0.75         4
   macro avg       0.38      0.50      0.43         4
weighted avg       0.56      0.75      0.64         4
```

```
C:\ProgramData\Anaconda3\lib\site-packages\sklearn\metrics\_classification.py:1318: UndefinedMetricWarning: Precision a
nd F-score are ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_division` parameter to c
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  _warn_prf(average, modifier, msg_start, len(result))
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```