

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 [9]:

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

Out[9]:

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

In [10]:

```
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.p
y:1245: UndefinedMetricWarning: Precision and F-score are ill-defined and be
ing set to 0.0 in labels with no predicted samples. Use `zero_division` para
meter to control this behavior.

```
_warn_prf(average, modifier, msg_start, len(result))
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