

In [4]:

```
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
from scipy import stats
```

In [5]:

```
df = pd.read_csv("F:\\DSE\\3rd year engineering\\5th sem\\6th sem\\DSBDA\\dataset\\Socia
```

In [6]:

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

In [7]:

```
from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.2,random_state=0)
```

In [8]:

```
from sklearn.preprocessing import StandardScaler
sc = StandardScaler()
x_train = sc.fit_transform(x_train)
x_test = sc.transform(x_test)
```

In [9]:

```
from sklearn.linear_model import LogisticRegression
classifier = LogisticRegression(random_state = 0)
classifier.fit(x_train, y_train)
```

Out[9]:

LogisticRegression(random\_state=0)

**In a Jupyter environment, please rerun this cell to show the HTML representation or trust the notebook.**

**On GitHub, the HTML representation is unable to render, please try loading this page with nbviewer.org.**

In [ ]:

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

In [11]:

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

Out[11]:

```
array([[57,  1],
       [ 5, 17]], dtype=int64)
```

In [12]:

```
cl_report=classification_report(y_test,y_pred)
cl_report
```

Out[12]:

```
'
      precision    recall  f1-score   support\n\n
0.92      0.98      0.95      0.96      58\n
0.85      0.85      0.85      0.85      22\n\n
accuracy      0.93\n
macro avg      0.89      0.88      0.90\n
weighted avg      0.93      0.92      0.92\n'
```

In [ ]: