```
In [9]: import matplotlib.pyplot as plt
import numpy as np
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import confusion_matrix
import pandas as pd
df=pd.read_csv('/home/student/Downloads/Social_Network_Ads.csv')
df.head()
```

Out[9]:

	Age	EstimatedSalary	Purchased
0	19	19000	0
1	35	20000	0
2	26	43000	0
3	27	57000	0
4	19	76000	0

- In [16]: from sklearn.linear_model import LogisticRegression
 x_train = x_train.values.reshape(-1, 1)
 model=LogisticRegression()
 model.fit(x_train,y_train)
- Out[16]:

 v LogisticRegression (i) (?) (https://scikit-learn.org/1.4/modules/generated/sklearn.linear_mod
- In [17]: from sklearn.metrics import accuracy_score,precision_score,recall_s
 Y_predicted=model.predict(x_test.values.reshape(-1,1))
 Y_predicted

In [18]:	<pre>confusion_matrix(y_test,Y_predicted) accuracy=accuracy_score(y_test,Y_predicted) print("accuracy",accuracy) recall = recall_score(y_test, Y_predicted) print(f"Recall Score: {recall}") precision = precision_score(y_test, Y_predicted) print(f"precision score: {precision}") f1 = f1_score(y_test, Y_predicted) print(f"F1: {f1}")</pre>
	accuracy 0.7875 Recall Score: 0.6756756756757 precision score: 0.833333333333334 F1: 0.746268656716418
In []:	
In []:	