In [19]:
```
import pandas as pd
import numpy as np
from sklearn.linear_model import LogisticRegression
from sklearn.preprocessing import StandardScaler
```

In [20]:
```
df=pd.read_csv(r"C:\Users\Niranjan\Downloads\gender_submission.csv")
df
```

20	912	0
21	913	0
22	914	1
23	915	0
24	916	1
25	917	0
26	918	1
27	919	0
28	920	0
29	921	0
30	922	0
31	923	0
32	924	1

In [21]:
```
pd.set_option('display.max_rows',10000000000)
pd.set_option('display.max_columns',10000000000)
pd.set_option('display.width',95)
```

In [22]:
```
print('This DataFrame has %d Rows and %d Columns'%(df.shape))
```

```
This DataFrame has 418 Rows and 2 Columns
```

In [23]:
```
df.head()
```

Out[23]:

	PassengerId	Survived
0	892	0
1	893	1
2	894	0
3	895	0
4	896	1

In [24]:
```
features_matrix=df.iloc[:,0:34]
```

In [25]:
```
target_vector=df.iloc[:,-1]
```

In [26]:
```
print('The Features Matrix Has %d Rows And %d Columns'%(features_matrix.shape))
print('The Features Matrix Has %d Rows And %d Columns'%(np.array(target_vector).reshape(-1,1).shape))
```

```
The Features Matrix Has 418 Rows And 2 Columns
The Features Matrix Has 418 Rows And 1 Columns
```

In [27]:
```
features_matrix_standardized=StandardScaler().fit_transform(features_matrix)
```

In [28]:
```
eight=None,random_state=None,solver='lbfgs',max_iter=100,multi_class='auto',verbose=0,warm_start=False,n_jobs=None,l1_ratio=None)
```

In [29]:
```
Logistic_Regression_Model=algorithm.fit(features_matrix_standardized,target_vector)
```

In [30]:
```
Observation=[[1,0]]
```

In [31]:
```
predictions=Logistic_Regression_Model.predict(Observation)
print('The Model Predicted The Observation To Belong To Class %s'%(predictions))
```

```
The Model Predicted The Observation To Belong To Class [0]
```

In [32]:
```
print('The Algorithm Was Trained To Predict One Of The Two Classes:%s'%(algorithm.classes_))
```

```
The Algorithm Was Trained To Predict One Of The Two Classes:[0 1]
```

In [33]:
```
print("""The Model Says The Probability Of The Obsrvation We Passed Belonging To Class['b']Is %s"""%(algorithm.predict_proba(Obs
print()
print("""The Model Says The Probability Of The Obsrvation We Passed Belonging To Class['g']Is %s"""%(algorithm.predict_proba(Obs
```

```
"The Model Says The Probability Of The Obsrvation We Passed Belonging To Class['b']Is 0.8238872695984016

"The Model Says The Probability Of The Obsrvation We Passed Belonging To Class['g']Is 0.17611273040159833
```

In [ ]:
```
```