In [2]:
```
import pandas as pd
import numpy as np
from sklearn.linear_model import LogisticRegression
from sklearn.preprocessing import StandardScaler
```

In [3]:
```
df=pd.read_csv(r"C:\Users\manis\OneDrive\Desktop\gender_submission.csv")
df
```

Out[3]:

	PassengerId	Survived
0	892	0
1	893	1
2	894	0
3	895	0
4	896	1
...	...	...
413	1305	0
414	1306	1
415	1307	0
416	1308	0
417	1309	0

418 rows × 2 columns

In [4]:
```
print('This DataFrame has %d Rows and %d Columns'%df.shape)
```

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

In [5]:
```
df.head()
```

Out[5]:

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

In [6]:
```
pd.set_option('display.max_rows',10000000000)
pd.set_option('display.max_columns',10000000000)
pd.set_option('display.width',95)
```

In [7]:
```
features_matrix=df.iloc[:, 0:34]
```

In [8]:
```
target_vector=df.iloc[:, -1]
```

In [9]:
```
print('The Featues Matrix Has %d Rows adn %d Columns(s)'%(features_matrix.shape)
print('The Target Matrix Has %d Rows adn %d Columns(s)'%(np.array(target_vector)
```

```
The Featues Matrix Has 418 Rows adn 2 Columns(s)
The Target Matrix Has 418 Rows adn 1 Columns(s)
```

In [10]:
```
features_matrix_standardized=StandardScaler().fit_transform(features_matrix)
```

In [11]:
```
algorithm=LogisticRegression(penalty='l2',dual=False,tol=1e-4,C=1.0,fit_intercep
```

In [12]:
```
Logistic_Regression_Model=algorithm.fit(features_matrix_standardized,target_vect
```

In [18]:
```
observation=[[0.99539,-0.05889]]
```

In [19]:
```
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 [20]:
```
print('The Algorithm Was Trained To Predict One Of The Two Classes:%s'%(algorith
```

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

In [21]:
```
print("""The Model Says The Probability Of The Observation We Passed Belonging T
print()
print("""The Model Says The Probability Of The Observation We Passed Belonging T
```

```
The Model Says The Probability Of The Observation We Passed Belonging To Class
[0] Is 0.8582107836963538

The Model Says The Probability Of The Observation We Passed Belonging To Class
[1] Is 0.14178921630364613
```

In [ ]:
```

```