```
In [1]: import pandas as pd
import numpy as np
from sklearn.linear_model import LogisticRegression
from sklearn.preprocessing import StandardScaler
```

In [2]: df=pd.read\_csv(r"C:\Users\Welcome\Downloads\gender\_submission.csv")
 df

Out[2]:		Passengerld	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 [3]: pd.set_option('display.max_rows',10000000000)
   pd.set_option('display.max_columns',10000000000)
   pd.set_option('display.width',95)
```

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

This DataFrame ha 418 Rows and 2 Columns

In [5]: df.head()

Out[5]:		Passengerld	Survived
	0	892	0
	1	893	1
	2	894	0
	3	895	0
	4	896	1

```
features matrix=df.iloc[:,0:34]
 In [6]:
 In [7]: | target_vector=df.iloc[:,-1]
 In [8]:
         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)
         The Features Matrix Has 418 Rows And 2 Columns
         The Features Matrix Has 418 Rows And 1 Columns
 In [9]: features matrix standardized=StandardScaler().fit transform(features matrix)
In [10]: algorithm=LogisticRegression(penalty='12',dual=False,tol=1e-4,C=1.0,fit_interce
         Logistic Regression Model=algorithm.fit(features matrix standardized, target ved
In [11]:
In [19]: | Observation=[[1,0]]
In [20]:
         predictions=Logistic Regression Model.predict(Observation)
         print('The Model Predicted The Observations To Belong To Class %s'%(predictions
         The Model Predicted The Observations To Belong To Class [0]
In [21]: print('The Algorithm Was Trained To Predict One Of The Two Classes:%s'%(algorit
         The Algorithm Was Trained To Predict One Of The Two Classes:[0 1]
In [22]:
         print("""The Model Says The Probability Of The Observation we Passed Belonging
         print("""The Model Says The Probability Of The Observation we Passed Belonging
         The Model Says The Probability Of The Observation we Passed Belonging To clas
         s['b']Is 0.8238872695984016
         The Model Says The Probability Of The Observation we Passed Belonging To clas
         s['g']Is 0.17611273040159833
 In [ ]:
```