

In [2]:

```

1 import pandas as pd
2 import numpy as np
3 from sklearn.linear_model import LogisticRegression
4 from sklearn.preprocessing import StandardScaler

```

In [3]:

```

1 dc=pd.read_csv(r"C:\Users\91955\Desktop\Data Analysis with Python\ionosphere_data.csv")
2 dc

```

Out[3]:

	column_a	column_b	column_c	column_d	column_e	column_f	column_g	column_h
0	True	False	0.99539	-0.05889	0.85243	0.02306	0.83398	-0.37708
1	True	False	1.00000	-0.18829	0.93035	-0.36156	-0.10868	-0.93597
2	True	False	1.00000	-0.03365	1.00000	0.00485	1.00000	-0.12062
3	True	False	1.00000	-0.45161	1.00000	1.00000	0.71216	-1.00000
4	True	False	1.00000	-0.02401	0.94140	0.06531	0.92106	-0.23255
...
346	True	False	0.83508	0.08298	0.73739	-0.14706	0.84349	-0.05567
347	True	False	0.95113	0.00419	0.95183	-0.02723	0.93438	-0.01920
348	True	False	0.94701	-0.00034	0.93207	-0.03227	0.95177	-0.03431
349	True	False	0.90608	-0.01657	0.98122	-0.01989	0.95691	-0.03646
350	True	False	0.84710	0.13533	0.73638	-0.06151	0.87873	0.08260

351 rows × 35 columns

In [4]:

```

1 pd.set_option('display.max_rows',1000000000)
2 pd.set_option('display.max_columns',1000000000)
3 pd.set_option('display.width',95)

```

In [5]:

```
1 print("This DataFrame has %d rows and %d columns"%(dc.shape))
```

This DataFrame has 351 rows and 35 columns

In [21]:

```
1 predictions=Logistic_Regression_Model.predict(observation)
2 print("The model predicted the observation to belonging to class %s"%(predictions))
```

The model predicted the observation to belonging to class ['g']

In [22]:

```
1 print('The algorithm was trained to predict one of the two classes:%s'%(algorithm.cl
```

The algorithm was trained to predict one of the two classes:['b' 'g']

In [24]:

```
1 print("""The model says the probability of the observation we passed belonging to cl
2 print("""The model says the probability of the observation we passed belonging to cl
```

The model says the probability of the observation we passed belonging to class['b'] is 0.008328109136196193
The model says the probability of the observation we passed belonging to class['g'] is 0.9916718908638038

In []:

```
1
```