

# D1

```
In [4]: import pandas as pd
        from sklearn.linear_model import LogisticRegression
        from sklearn.preprocessing import StandardScaler
```

```
In [3]: df=pd.read_csv("1_ionosphere.csv")
        df
```

```
Out[3]:
```

	1	0	0.99539	-0.05889	0.85243	0.02306	0.83398	-0.37708	1.1	0.03760	...	-0.51171
0	1	0	1.00000	-0.18829	0.93035	-0.36156	-0.10868	-0.93597	1.00000	-0.04549	...	-0.26569
1	1	0	1.00000	-0.03365	1.00000	0.00485	1.00000	-0.12062	0.88965	0.01198	...	-0.40220
2	1	0	1.00000	-0.45161	1.00000	1.00000	0.71216	-1.00000	0.00000	0.00000	...	0.90695
3	1	0	1.00000	-0.02401	0.94140	0.06531	0.92106	-0.23255	0.77152	-0.16399	...	-0.65158
4	1	0	0.02337	-0.00592	-0.09924	-0.11949	-0.00763	-0.11824	0.14706	0.06637	...	-0.01535
...	...	...	...	...	...	...	...	...	...	...	...	...
345	1	0	0.83508	0.08298	0.73739	-0.14706	0.84349	-0.05567	0.90441	-0.04622	...	-0.04202
346	1	0	0.95113	0.00419	0.95183	-0.02723	0.93438	-0.01920	0.94590	0.01606	...	0.01361
347	1	0	0.94701	-0.00034	0.93207	-0.03227	0.95177	-0.03431	0.95584	0.02446	...	0.03193
348	1	0	0.90608	-0.01657	0.98122	-0.01989	0.95691	-0.03646	0.85746	0.00110	...	-0.02099
349	1	0	0.84710	0.13533	0.73638	-0.06151	0.87873	0.08260	0.88928	-0.09139	...	-0.15114

350 rows × 35 columns



```
In [10]: x=df.iloc[:, :10]
        y=df.iloc[:, -1]
        f=StandardScaler().fit_transform(x)
        lo=LogisticRegression()
        lo.fit(f,y)
```

```
Out[10]: LogisticRegression()
```

```
In [11]: value=[[25,5656,64,25,45,46,26,489,616,265]]
        lo.predict(value)
```

```
Out[11]: array(['g'], dtype=object)
```