```
In [1]: import pandas as pd
In [2]: df=pd.read_csv('insurance.csv')
```

In [3]: df

Out[3]:

	age	bought_insurance
0	22	0
1	25	0
2	47	1
3	52	0
4	46	1
5	56	1
6	55	0
7	60	1
8	62	1
9	61	1
10	18	0
11	28	0
12	27	0
13	29	0
14	49	1
15	55	1
16	25	1
17	58	1
18	19	0
19	18	0
20	21	0
21	26	0
22	40	1
23	45	1
24	50	1

	age	bought_insurance
25	54	1
26	23	0

```
In [4]: df.head()
```

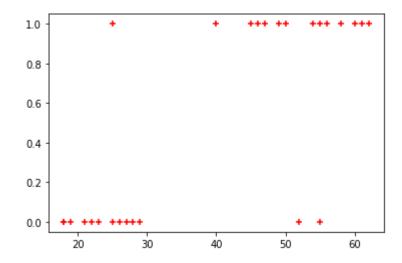
Out[4]:

	age	bought_insurance
0	22	0
1	25	0
2	47	1
3	52	0
4	46	1

```
In [5]: import matplotlib.pyplot as plt
%matplotlib inline
```

```
In [6]: plt.scatter(df.age,df.bought_insurance,marker='+',c='r')
```

Out[6]: <matplotlib.collections.PathCollection at 0x28c69a29580>



```
In [7]: from sklearn.model_selection import train_test_split
 In [ ]:
 In [8]: x_train, x_test, y_train, y_test=train_test_split(df[['age']],df.bought_insurance,test_size=0.2)
 In [9]: x_train.head()
 Out[9]:
              age
              50
          24
              62
              61
               25
          12
              27
In [10]: from sklearn.linear_model import LogisticRegression
In [11]:
         model=LogisticRegression()
In [12]: model.fit(x_train,y_train)
Out[12]: LogisticRegression()
In [13]: model.predict(x_test)
Out[13]: array([0, 0, 0, 0, 1, 1], dtype=int64)
In [14]: y_test.values
Out[14]: array([0, 0, 0, 0, 1, 1], dtype=int64)
```