In [10]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

In [11]:
```
df=pd.read_csv("D:\\Downloads\\insurance_data.csv")
```

In [12]:
```
df.head()
```

Out[12]:

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

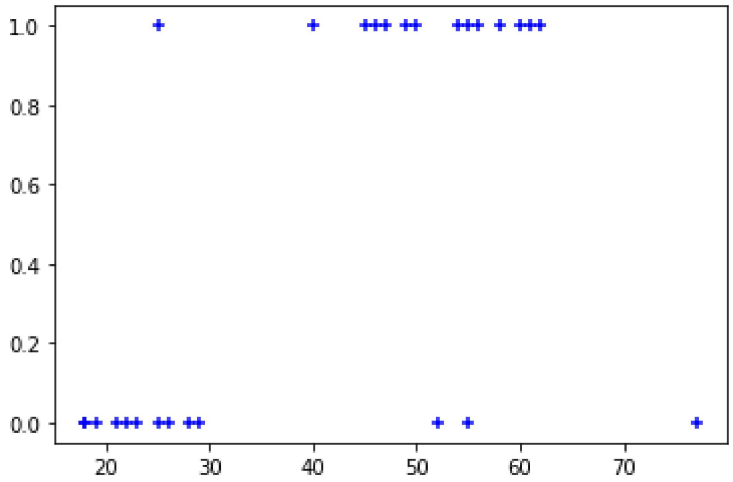
In [13]:
```
df.rename(columns={"bought_insurance":"ins"})
```

Out[13]:

	age	ins
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	77	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
25	54	1
26	23	0

In [15]:
```
plt.scatter(df.age,df.bought_insurance,marker='+',color='blue')
```

Out[15]:
```
<matplotlib.collections.PathCollection at 0x172382f8f70>
```



In [16]:
```
from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(df[['age']],df.bought_insurance
```

In [17]:
```
x_test
```

Out[17]:

	age
24	50
11	28
21	26
26	23
5	56
0	22

In [24]:
```
from sklearn.linear_model import LogisticRegression
model = LogisticRegression()
```

In [25]:
```
model.fit(x_train,y_train)
```

Out[25]:
```
LogisticRegression()
```

In [26]:
```
model.predict(x_test)
```

Out[26]:
```
array([1, 0, 0, 0, 1, 0], dtype=int64)
```

In [27]:
```
model.score(x_test,y_test)
```

Out[27]:
```
1.0
```

In [ ]: