```
In [50]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

In [51]: from sklearn.linear_model import LogisticRegression

Out[52]:

	male	age	education	currentSmoker	cigsPerDay	BPMeds	prevalentStroke	prevalentHyp
0	1	39	4.0	0	0.0	0.0	0	0
1	0	46	2.0	0	0.0	0.0	0	0
2	1	48	1.0	1	20.0	0.0	0	0
3	0	61	3.0	1	30.0	0.0	0	1
4	0	46	3.0	1	23.0	0.0	0	0
4233	1	50	1.0	1	1.0	0.0	0	1
4234	1	51	3.0	1	43.0	0.0	0	0
4235	0	48	2.0	1	20.0	NaN	0	0
4236	0	44	1.0	1	15.0	0.0	0	0
4237	0	52	2.0	0	0.0	0.0	0	0

4238 rows × 16 columns

```
In [53]: |df.info()
         <class 'pandas.core.frame.DataFrame'>
         RangeIndex: 4238 entries, 0 to 4237
         Data columns (total 16 columns):
          #
               Column
                                Non-Null Count
                                                Dtype
               _____
          - - -
                                                 ____
          0
              male
                                4238 non-null
                                                 int64
          1
                                4238 non-null
                                                 int64
               age
          2
                                4133 non-null
                                                 float64
              education
          3
               currentSmoker
                                4238 non-null
                                                 int64
          4
                                4209 non-null
               cigsPerDay
                                                 float64
          5
              BPMeds
                                4185 non-null
                                                 float64
          6
              prevalentStroke 4238 non-null
                                                 int64
          7
                                4238 non-null
                                                 int64
              prevalentHyp
          8
              diabetes
                                4238 non-null
                                                 int64
          9
              totChol
                                4188 non-null
                                                 float64
                                                 float64
          10 sysBP
                                4238 non-null
          11 diaBP
                                4238 non-null
                                                 float64
                                                float64
          12
                                4219 non-null
              BMI
          13
              heartRate
                                4237 non-null
                                                 float64
          14
              glucose
                                3850 non-null
                                                 float64
          15 TenYearCHD
                                4238 non-null
                                                 int64
         dtypes: float64(9), int64(7)
         memory usage: 529.9 KB
In [54]: | df1=df.dropna()
In [55]: |d1=df1.iloc[:,0:5]
         d2=df1.iloc[:,-1]
In [56]: d1.shape
Out[56]: (3656, 5)
In [57]: d2.shape
Out[57]: (3656,)
In [58]: | from sklearn.preprocessing import StandardScaler
In [59]: | a=StandardScaler().fit_transform(d1)
         lr=LogisticRegression()
In [60]:
         lr.fit(a,d2)
Out[60]: LogisticRegression()
In [61]: obs=[[10,12,13,14,5]]
```