```
In [1]: import pandas as pd
      import numpy as np
      import matplotlib.pyplot as plt
In [2]:
In [3]: df = pd.read_csv("C4_framingham.csv")
```

Out[3]:

	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 [4]:

<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	age	4238 non-null	int64
2	education	4133 non-null	float64
3	currentSmoker	4238 non-null	int64
4	cigsPerDay	4209 non-null	float64
5	BPMeds	4185 non-null	float64
6	prevalentStroke	4238 non-null	int64
7	prevalentHyp	4238 non-null	int64
8	diabetes	4238 non-null	int64
9	totChol	4188 non-null	float64
10	sysBP	4238 non-null	float64
11	diaBP	4238 non-null	float64
12	BMI	4219 non-null	float64
13	heartRate	4237 non-null	float64
4 4	-1	205011	C1 + C 4

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In [5]:
In [6]:
'diaBP', 'BMI', 'heartRate', 'glucose', 'TenYearCHD'],
       dtype='object')
'diaBP', 'BMI', 'heartRate', 'glucose']]
In [8]:
Out[8]: (3656, 15)
In [9]:
Out[9]: (3656,)
In [10]:
In [11]:
In [12]: logr=LogisticRegression()
Out[12]: LogisticRegression()
In [13]:
In [14]: prediction=logr.predict(observation)
Out[14]: array([1], dtype=int64)
In [15]:
Out[15]: array([0, 1], dtype=int64)
In [16]:
Out[16]: 0.0002214783507201723
In [17]:
Out[17]: 0.9997785216492798
```

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