```
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Class - 3rd year
Section - CSE
```

In [1]:
```
import pandas as pd
import os
import matplotlib.pyplot as plt
import numpy as np
import seaborn as sns
from sklearn.model_selection import train_test_split
import warnings
warnings.filterwarnings('ignore')
```

In [2]:
```
os.getcwd()
```

Out[2]:
```
'C:\\Users\\sarth\\Data Analytics projects\\College Proj'
```

In [3]:
```
os.chdir('D:\\Users\\SARTHAK\\Picture\\Desktop')
```

In [4]:
```
df=pd.read_csv('framingham.csv')
```

In [5]:
```
df.head()
```

Out[5]:

	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

In [6]:
```
df.shape
```

Out[6]:
```
(4240, 16)
```

In [7]:
```
df.size
```

Out[7]:
```
67840
```

Train -Test Split

In [8]:
```
x = np.arange(1,25).reshape(12,2)
y = np.array([0,1,1,0,1,0,0,1,1,0,1,0])
```

In [9]:
```
x_train, x_test, y_train, y_test = train_test_split(x,y)
```

In [10]:
```
x_train
```

Out[10]:
```
array([[ 9, 10],
       [21, 22],
       [ 7,  8],
       [11, 12],
       [17, 18],
       [15, 16],
       [23, 24],
       [ 1,  2],
       [13, 14]])
```

In [11]:
```
x_train
```

Out[11]:
```
array([[ 9, 10],
       [21, 22],
       [ 7,  8],
       [11, 12],
       [17, 18],
       [15, 16],
       [23, 24],
       [ 1,  2],
       [13, 14]])
```

In [12]:
```
y_train
```

Out[12]:
```
array([1, 1, 0, 0, 1, 1, 0, 0, 0])
```

In [13]:
```
y_test
```

Out[13]:
```
array([0, 1, 1])
```

In [14]:
```
from sklearn.linear_model import LogisticRegression
model = LogisticRegression().fit(x_train,y_train)
model.score(x_train, y_train)
```

Out[14]:
```
0.6666666666666666
```

In [ ]:
```
```