```
In [1]: import pandas as pd
        import numpy as np
        import matplotlib.pyplot as plt
                     In [2]:
        df = pd.read_csv("C6_bmi.csv")
Out[3]:
             Gender Height Weight Index
          0
               Male
                      174
                              96
                                    4
          1
               Male
                      189
                              87
                                    2
             Female
                      185
                             110
          3
                      195
                             104
                                    3
             Female
           4
               Male
                      149
                              61
                                    3
         495
                             153
             Female
                      150
                                    5
                             121
         496
             Female
         497
             Female
                      141
                             136
                                    5
         498
                      150
                              95
                                    5
               Male
         499
               Male
                      173
                             131
                                    5
        500 rows × 4 columns
In [4]:
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 500 entries, 0 to 499
        Data columns (total 4 columns):
             Column Non-Null Count Dtype
                     -----
         0
             Gender 500 non-null
                                     object
             Height 500 non-null
                                     int64
         2
             Weight 500 non-null
                                     int64
             Index 500 non-null
                                     int64
        dtypes: int64(3), object(1)
        memory usage: 15.8+ KB
In [5]:
Out[5]: Index(['Gender', 'Height', 'Weight', 'Index'], dtype='object')
In [6]: f_m=df[['Height', 'Weight', 'Index']]
```

1 of 2 01-08-2023, 17:27

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In [7]:
Out[7]: (500, 3)
In [8]:
Out[8]: (500,)
In [9]:
In [10]: ( ) ( ) ( )
In [11]: logr=LogisticRegression()
Out[11]: LogisticRegression()
In [14]:
In [15]: prediction=logr.predict(observation)
Out[15]: array(['Male'], dtype=object)
In [16]:
Out[16]: array(['Female', 'Male'], dtype=object)
In [17]:
Out[17]: 0.4428979082451251
In [18]:
Out[18]: 0.5571020917548749
```

2 of 2 01-08-2023, 17:27