```
In [1]: import pandas as pd
     import numpy as np
     import matplotlib.pyplot as plt
    In [2]:
```

In [3]: df = pd.read_csv("C5_health care diabetes.csv")

Out[3]:

	Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	ВМІ	DiabetesPedigreeFunction
0	6	148	72	35	0	33.6	0.62
1	1	85	66	29	0	26.6	0.3
2	8	183	64	0	0	23.3	0.67
3	1	89	66	23	94	28.1	0.16
4	0	137	40	35	168	43.1	2.28
763	10	101	76	48	180	32.9	0.17
764	2	122	70	27	0	36.8	0.34
765	5	121	72	23	112	26.2	0.24
766	1	126	60	0	0	30.1	0.34
767	1	93	70	31	0	30.4	0.3

768 rows × 9 columns

In [4]:

<class 'pandas.core.frame.DataFrame'> RangeIndex: 768 entries, 0 to 767

Data columns (total 9 columns):

#	Column	Non-Null Count	Dtype
0	Pregnancies	768 non-null	int64
1	Glucose	768 non-null	int64
2	BloodPressure	768 non-null	int64
3	SkinThickness	768 non-null	int64
4	Insulin	768 non-null	int64
5	BMI	768 non-null	float64
6	DiabetesPedigreeFunction	768 non-null	float64
7	Age	768 non-null	int64
8	Outcome	768 non-null	int64

dtypes: float64(2), int64(7)

memory usage: 54.1 KB

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In [5]:
Out[5]: Index(['Pregnancies', 'Glucose', 'BloodPressure', 'SkinThickness', 'Insulin',
            'BMI', 'DiabetesPedigreeFunction', 'Age', 'Outcome'],
           dtype='object')
In [6]: f_m=df[['Pregnancies', 'Glucose', 'BloodPressure', 'SkinThickness', 'Insulin',
          'BMI', 'DiabetesPedigreeFunction', 'Age']]
In [7]:
Out[7]: (768, 8)
In [8]:
Out[8]: (768,)
In [9]:
In [10]:
In [11]: logr=LogisticRegression()
Out[11]: LogisticRegression()
In [12]:
In [13]: prediction=logr.predict(observation)
Out[13]: array([1], dtype=int64)
In [14]:
Out[14]: array([0, 1], dtype=int64)
In [15]:
Out[15]: 0.00029236948687560993
Out[16]: 0.9997076305131244
```

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