

```
import pandas as pd
df=pd.read_csv('/content/drive/MyDrive/DATASET_ML/diabetes.csv')
```

df

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

768 rows x 8 columns

```
df.isna().sum()

Pregnancies      0
Glucose           0
BloodPressure     0
SkinThickness     0
Insulin           0
BMI               0
DiabetesPedigreeFunction  0
Age              0
Outcome           0
dtype: int64
```

```
df.dtypes

Pregnancies      int64
Glucose          int64
BloodPressure    int64
SkinThickness    int64
Insulin          int64
BMI              float64
DiabetesPedigreeFunction  float64
Age              int64
Outcome          int64
dtype: object
```

```
df.ndim

2
```

```
df.shape

(768, 9)
```

```
X=df.iloc[:, :-1].values
X

array([[ 6., 148., 72., ..., 33.6, 0.627, 50. ],
       [ 1., 85., 66., ..., 26.6, 0.351, 31. ],
       [ 8., 183., 64., ..., 23.3, 0.672, 32. ],
       ...,
       [ 5., 121., 72., ..., 26.2, 0.245, 30. ],
       [ 1., 126., 60., ..., 30.1, 0.349, 47. ],
       [ 1., 93., 70., ..., 30.4, 0.315, 23. ]])
```

```
y=df.iloc[:, -1].values
y

array([1, 0, 1, 0, 1, 0, 1, 0, 1, 1, 0, 1, 0, 1, 1, 1, 1, 0, 1, 0, 0,
       1, 1, 1, 1, 0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 1, 1, 0, 0, 0, 1,
       0, 1, 0, 0, 1, 0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0, 1, 0, 0, 1, 0,
       1, 0, 0, 0, 1, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 0, 0, 0,
```



