

DATA ACQUISITION

```
In [2]: #Name : Shreya Sharma
#Roll no. : 46
#Sectin : 3B
#Date : 13/07/2024
```

```
In [4]: #Aim : Perform operation on Data Acquisition using pandas
```

```
In [18]: import pandas as pd
```

```
In [1]: a=("shreya")
print(a)

shreya
```

```
In [3]: len(a)
```

Out[3]: 6

```
In [5]: type(a)
```

Out[5]: str

```
In [20]: import os
```

```
In [22]: os.getcwd()
```

Out[22]: 'C:\\Users\\pravi'

```
In [24]: os.chdir('C:\\Users\\pravi\\Desktop')
```

```
In [26]: df=pd.read_csv("diabetes.csv")
```

```
In [28]: df.head()
```

Out[28]:

| | Pregnancies | Glucose | BloodPressure | SkinThickness | Insulin | BMI | DiabetesPedigreeFunction | Age | Outcome |
|---|-------------|---------|---------------|---------------|---------|------|--------------------------|-----|---------|
| 0 | 6 | 148 | 72 | 35 | 0 | 33.6 | 0.627 | 50 | 1 |
| 1 | 1 | 85 | 66 | 29 | 0 | 26.6 | 0.351 | 31 | 0 |
| 2 | 8 | 183 | 64 | 0 | 0 | 23.3 | 0.672 | 32 | 1 |
| 3 | 1 | 89 | 66 | 23 | 94 | 28.1 | 0.167 | 21 | 0 |
| 4 | 0 | 137 | 40 | 35 | 168 | 43.1 | 2.288 | 33 | 1 |

```
In [30]: df.head(100)
```

Out[30]:

| | Pregnancies | Glucose | BloodPressure | SkinThickness | Insulin | BMI | DiabetesPedigreeFunction | Age | Outcome |
|-----|-------------|---------|---------------|---------------|---------|------|--------------------------|-----|---------|
| 0 | 6 | 148 | 72 | 35 | 0 | 33.6 | 0.627 | 50 | 1 |
| 1 | 1 | 85 | 66 | 29 | 0 | 26.6 | 0.351 | 31 | 0 |
| 2 | 8 | 183 | 64 | 0 | 0 | 23.3 | 0.672 | 32 | 1 |
| 3 | 1 | 89 | 66 | 23 | 94 | 28.1 | 0.167 | 21 | 0 |
| 4 | 0 | 137 | 40 | 35 | 168 | 43.1 | 2.288 | 33 | 1 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 95 | 6 | 144 | 72 | 27 | 228 | 33.9 | 0.255 | 40 | 0 |
| 96 | 2 | 92 | 62 | 28 | 0 | 31.6 | 0.130 | 24 | 0 |
| 97 | 1 | 71 | 48 | 18 | 76 | 20.4 | 0.323 | 22 | 0 |
| 98 | 6 | 93 | 50 | 30 | 64 | 28.7 | 0.356 | 23 | 0 |
| 99 | 1 | 122 | 90 | 51 | 220 | 49.7 | 0.325 | 31 | 1 |

100 rows × 9 columns

```
In [32]: df.tail()
```

Out[32]:

| | Pregnancies | Glucose | BloodPressure | SkinThickness | Insulin | BMI | DiabetesPedigreeFunction | Age | Outcome |
|-----|-------------|---------|---------------|---------------|---------|------|--------------------------|-----|---------|
| 763 | 10 | 101 | 76 | 48 | 180 | 32.9 | 0.171 | 63 | 0 |
| 764 | 2 | 122 | 70 | 27 | 0 | 36.8 | 0.340 | 27 | 0 |
| 765 | 5 | 121 | 72 | 23 | 112 | 26.2 | 0.245 | 30 | 0 |

| | | | | | | | | | |
|-----|---|-----|----|----|---|------|-------|----|---|
| 766 | 1 | 126 | 60 | 0 | 0 | 30.1 | 0.349 | 47 | 1 |
| 767 | 1 | 93 | 70 | 31 | 0 | 30.4 | 0.315 | 23 | 0 |