Assignment NO 2

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Slip16(b)

Q.2 B) Write a python program to create a data frame for students' information such as name, graduation percentage and age. Display average age of students, average of graduation percentage

In [5]:
```
import pandas as pd
data={
    'Name':['Madhura','Sakshi','Samiksha','Akanksha'],
    'Graduation_Percentage':[85,82,78,66],
    'Age':[22,33,24,29]
}
```

In [6]:
```
students_df=pd.DataFrame(data)
```

In [7]:
```
print("Students Information:\n")
print(students_df)
```

```
Students Information:

       Name  Graduation_Percentage  Age
0   Madhura                     85   22
1    Sakshi                     82   33
2  Samiksha                     78   24
3  Akanksha                     66   29
```

In [8]:
```
average_age=students_df['Age'].mean()
```

In [9]:
```
average_Graduation_Percentage=students_df['Graduation_Percentage'].mean()
```

In [10]:
```
print(f"Average Age of Students:{average_age:.2f}")
print(f"Average Graduation Percentage :{average_Graduation_Percentage:.2f}")
```

```
Average Age of Students:27.00
Average Graduation Percentage :77.75
```

Slip 10(A)

Q.2 A) Write a python program to Display column-wise mean, and median for SOCRHeight

In [11]:
```
file_path='SOCR-HeightWeight.csv'
data=pd.read_csv(file_path)
print("first 5 rows DataFrame:")
print(data.head())
```

```
first 5 rows DataFrame:
   Index  Height(Inches)  Weight(Pounds)
0      1        65.78331        112.9925
1      2        71.51521        136.4873
2      3        69.39874        153.0269
3      4        68.21660        142.3354
4      5        67.78781        144.2971
```

In [12]:
```
mean_values=data.mean()
```

In [13]:
```
median_values=data.median()
```

In [14]:
```
print("Column-wise Mean:")
print(mean_values,"\n")
```

```
Column-wise Mean:
Index             12500.500000
Height(Inches)       67.993114
Weight(Pounds)      127.079421
dtype: float64
```

In [15]:
```
print("Column-wise Median:")
```

```
print(median_values,"\n")
```

```
Column-wise Median:
Index             12500.50000
Height(Inches)       67.99570
Weight(Pounds)      127.15775
dtype: float64
```

In [ ]: