```
In [2]: #Exp_3
```

```
In [3]: #Aim: Creating the Dataframe
```

```
In [1]: #Name:Dev Sanjay Vaidya
        #Roll no:69
        #Sec:B
        #Subject:ET-1
        #Date:07/08/25
```

Creating Series

```
In [1]: import pandas as pd
```

```
In [3]: Name=["Pratik","Govind","Shubham","Dev","Vedant"]
```

```
In [4]: Name
```

```
Out[4]: ['Pratik', 'Govind', 'Shubham', 'Dev', 'Vedant']
```

```
In [7]: Roll_list=pd.Series(Name,index=[1,2,3,4,5])
        print(Roll_list)
```

```
1      Pratik
2      Govind
3     Shubham
4         Dev
5      Vedant
dtype: object
```

Creating a Data Frame

```
In [10]: df=pd.DataFrame([[10,13,15,18],[17,16,19,12],[11,12,14,17]],
                         columns= ["CD","DBMS","DSS","CAO"])
```

```
In [11]: df
```

Out[11]:

	CD	DBMS	DSS	CAO
0	10	13	15	18
1	17	16	19	12
2	11	12	14	17

```
In [12]: df.shape
```

```
Out[12]: (3, 4)
```

```
In [13]: df.size
```

Out[13]: 12

```
In [14]: df.ndim
```

Out[14]: 2

Adding Record (Row)to the Data Frame

```
In [31]: df2=pd.DataFrame([[6,5,7,9]],
         columns= ["CD","DBMS","DSS","CAO"])
```

```
In [35]: df3 =pd.concat([df,df2,df3], ignore_index=True)
```

```
In [36]: df3
```

Out[36]:
	CD	DBMS	DSS	CAO
0	6	5	7	9
1	6	5	7	9
2	6	5	7	9
3	6	5	7	9

Adding Attribute(Columns) to the Data Frame

```
In [39]: df3["DM"]=[12,14,16,18]
```

```
In [40]: df3
```

Out[40]:
	CD	DBMS	DSS	CAO	DM
0	6	5	7	9	12
1	6	5	7	9	14
2	6	5	7	9	16
3	6	5	7	9	18

Deleting Record from df3 dataframe

```
In [41]: df4=df3.drop(index=[1])
```

```
In [42]:  df4
```

Out[42]:

	CD	DBMS	DSS	CAO	DM
0	6	5	7	9	12
2	6	5	7	9	16
3	6	5	7	9	18

Deleting Attribute (Columns) from df3 dataframe

```
In [43]:  df5=df3.drop(columns=["DM"])
```

```
In [44]:  df5
```

Out[44]:

	CD	DBMS	DSS	CAO
0	6	5	7	9
1	6	5	7	9
2	6	5	7	9
3	6	5	7	9

```
In [45]:  print("Mean of DSS:",df5["DSS"].mean())

          Mean of DSS: 7.0
```

```
In [46]:  print("Median of DSS:",df5["DSS"].median())

          Median of DSS: 7.0
```

```
In [47]:  print("Mode of DSS:",df5["DSS"].mode())

          Mode of DSS: 0    7
          Name: DSS, dtype: int64
```

```
In [ ]:
```