

```
In [1]: #Experiment No:3
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In [2]: #Aim:Creating Data Frame
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In [3]: #Name:Sakshi Rambhau Wankhade  
#Roll No.:72  
#Sec:A  
#Subject:ET-1  
#Date:25-08-2025
```

```
In [4]: # Importing basic library  
import pandas as pd
```

```
In [5]: #Ceating Data Frame  
df=pd.DataFrame([[21,15,20,12],[12,15,17,16],[9,7,12,14]],  
                 columns=["CD", "DBMS", "DSS", "CAO"])
```

```
In [6]: df
```

```
Out[6]:
```

	CD	DBMS	DSS	CAO
0	21	15	20	12
1	12	15	17	16
2	9	7	12	14

```
In [7]: df.shape
```

```
Out[7]: (3, 4)
```

```
In [8]: df.size
```

```
Out[8]: 12
```

```
In [9]: df.ndim
```

```
Out[9]: 2
```

Adding row in the DataFrame

```
In [10]: df2=pd.DataFrame([[11,14,15,17]],  
                           columns=["CD", "DBMS", "DSS", "CAO"])
```

```
In [11]: df3=pd.concat([df,df2],ignore_index=True)
```

```
In [12]: df3
```

```
Out[12]:
```

	CD	DBMS	DSS	CAO
0	21	15	20	12
1	12	15	17	16
2	9	7	12	14
3	11	14	15	17

Adding column in the DataFrame

```
In [13]: df3["DM"]=[12,14,11,20]
```

```
In [14]: df3
```

```
Out[14]:
```

	CD	DBMS	DSS	CAO	DM
0	21	15	20	12	12
1	12	15	17	16	14
2	9	7	12	14	11
3	11	14	15	17	20

Deleting Record from df3 DataFrame

```
In [15]: df4=df3.drop(index=[1])
```

```
In [16]: df4
```

```
Out[16]:
```

	CD	DBMS	DSS	CAO	DM
0	21	15	20	12	12
2	9	7	12	14	11
3	11	14	15	17	20

Deleting Attribute From df3 DataFrame

```
In [17]: df5=df3.drop(columns=["DM"])
```

```
In [18]: df5
```

Out[18]:

	CD	DBMS	DSS	CAO
0	21	15	20	12
1	12	15	17	16
2	9	7	12	14
3	11	14	15	17

In [19]: *#Finding mean of DSS*
 print("Mean of DSS:", df5["DSS"].mean())

Mean of DSS: 16.0

In [20]: *#Finding median of DSS*
 print("Median of DSS:", df5["DSS"].median())

Median of DSS: 16.0

In [21]: *#Finding mode of DSS*
 print("Mode of DSS:", df5["DSS"].mode())

Mode of DSS: 0 12
 1 15
 2 17
 3 20
 Name: DSS, dtype: int64

In [22]: print("Min of DSS:", df5["DSS"].min())

Min of DSS: 12

In [23]: print("Max of DSS:", df5["DSS"].max())

Max of DSS: 20

Creating a Series

In [24]: *#Creating studentname List*
 Name=["Sakshi", "Nikita", "Vrushai", "Suhani", "Akshata", "Shreya", "Tanvi"]
 Name

Out[24]: ['Sakshi', 'Nikita', 'Vrushai', 'Suhani', 'Akshata', 'Shreya', 'Tanvi']

In [28]: *#Creating roll no list or series*
 Roll_list=pd.Series(Name, index=[1,2,3,4,5,6,7])
 print(Roll_list)

```
1    Sakshi  
2    Nikita  
3    Vrushai  
4    Suhani  
5    Akshata  
6    Shreya  
7    Tanvi  
dtype: object
```

In []: