

In [27]: `# EXP-5`

In [28]: `# Aim: creation of data frame`

In [3]: `# Name: Payal Devanand Manwar
Roll no.: 37
Sec:A
Subject:ET1
Date: 25/08/2025`

In [4]: `import pandas as pd`

In [5]: `df=pd.DataFrame([[10,12,13,14],[11,12,13,14],[12,13,15,16]],
columns=["CD","DBMS","CAO","DSS"])`

In [7]: `df`

Out[7]:

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

In [8]: `df.shape`

Out[8]: (3, 4)

In [9]: `df.size`

Out[9]: 12

In [10]: `df.ndim`

Out[10]: 2

In [11]: `df2=pd.DataFrame([[6,7,8,9]],
columns=["CD","DBMS","CAO","DSS"])`

In [12]: `df3=df.append(df2,ignore_index=True)`

In [13]: `df3`

Out[13]:

	CD	DBMS	CAO	DSS
0	10	12	13	14

	CD	DBMS	CAO	DSS
1	11	12	13	14
2	12	13	15	16
3	6	7	8	9

Adding Attributes(Columns)name Dm

In [14]: `df3["DM"]=[12,13,14,15]`

In [15]: `df3`

Out[15]:

	CD	DBMS	CAO	DSS	DM
0	10	12	13	14	12
1	11	12	13	14	13
2	12	13	15	16	14
3	6	7	8	9	15

Deleting Record from Data Frame

In [16]: `df4=df3.drop(index=[1])`

In [17]: `df4`

Out[17]:

	CD	DBMS	CAO	DSS	DM
0	10	12	13	14	12
2	12	13	15	16	14
3	6	7	8	9	15

Delete Attributes from data frame

In [18]: `df5=df3.drop(columns=["DM"])`

In [19]: `df5`

Out[19]:

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

	CD	DBMS	CAO	DSS
3	6	7	8	9

```
In [20]: #finding mean of DSS
print("Mean of DSS:",df5["DSS"].mean())
```

Mean of DSS: 13.25

```
In [21]: #finding median of DSS
print("Median of DSS:",df5["DSS"].median())
```

Median of DSS: 14.0

```
In [22]: #finding mode of DSS
print("Mean of DSS:",df5["DSS"].mean())
```

Mode of DSS: 0 14
dtype: int64

```
In [23]: #finding min of DSS
print("Min of DSS:",df5["DSS"].min())
```

Min of DSS: 9

```
In [24]: #finding max of DSS
print("Max of DSS:",df5["DSS"].max())
```

Max of DSS: 16

CREATING SERIES

```
In [25]: import pandas as pd
#creating student name list
Name=["Anisha","Payal","Suhani","Tanvi"]
Name
```

```
Out[25]: ['Anisha', 'Payal', 'Suhani', 'Tanvi']
```

```
In [26]: #creating a series
Roll_List=pd.Series(Name,index=[1,2,3,4])
print(Roll_List)
```

```
1    Anisha
2    Payal
3    Suhani
4    Tanvi
dtype: object
```

```
In [ ]:
```