

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

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 []: