In [1]:
```
#Experiment no.3
```

In [2]:
```
#Aim :Creation of data frame
```

In [3]:
```
#Name:Srushti Bawane
#Roll no.:5
#sec:B
#sub:ET 1
#date:26-08-2025
```

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

In [5]:
```
#creating Data frame
df=pd.DataFrame([[10,14,15,11],[12,15,17,16],[9,7,12,14]],
columns=["CD","DBMS","DSS","CAO"])
```

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

Out[6]:

	CD	DBMS	DSS	CAO
0	10	14	15	11
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
```

In [25]:
```
 df2=pd.DataFrame(
     [[11,14,10,11]],
     columns=["CD","DBMS","DSS","CAO"]
)
df2
```

Out[25]:

	CD	DBMS	DSS	CAO
0	11	14	10	11

In [32]:
```
df3 = pd.concat([df, df2], ignore_index=True)
```

In [33]:
```
df3
```

Out[33]:

	CD	DBMS	DSS	CAO
0	10	14	15	11
1	12	15	17	16
2	9	7	12	14
3	11	14	10	11

In [34]:
```
df3.size
```

Out[34]: 16

In [35]:
```
df3.shape
```

Out[35]: (4, 4)

Adding attribue column

In [36]:
```
df3["DM"]=[12,14,20,12]
```

In [37]:
```
df3
```

Out[37]:

	CD	DBMS	DSS	CAO	DM
0	10	14	15	11	12
1	12	15	17	16	14
2	9	7	12	14	20
3	11	14	10	11	12

Deleting record from dataframe

In [38]:
```
df4=df3.drop(index=[1])
```

In [39]:
```
df4
```

Out[39]:

	CD	DBMS	DSS	CAO	DM
0	10	14	15	11	12
2	9	7	12	14	20
3	11	14	10	11	12

Deleting column from dataframe

In [40]:
```
df5=df3.drop(columns=["DM"])
```

In [41]:
```
df5
```

Out[41]:

	CD	DBMS	DSS	CAO
0	10	14	15	11
1	12	15	17	16
2	9	7	12	14
3	11	14	10	11

In [42]:
```
#Finding mean of DSS
print("Mean of DSS:",df5["DSS"].mean())
```

```
Mean of DSS: 13.5
```

In [43]:
```
#Finding median of DSS
print("Mean of DSS:",df5["DSS"].median())
```

```
Mean of DSS: 13.5
```

In [44]:
```
#Finding mode of DSS
print("Mean of DSS:",df5["DSS"].mode())
```

```
Mean of DSS: 0    10
1    12
2    15
3    17
Name: DSS, dtype: int64
```

In [45]:
```
#Finding min of DSS
print("Min of DSS:",df5["DSS"].min())
```

```
Min of DSS: 10
```

In [46]:
```
#Finding max of DSS
print("Max of DSS:",df5["DSS"].max())
```

```
Max of DSS: 17
```

Creating a series

In [49]:
```
#creating student name list
Name=["tanvi","Madhura","Tanvi","rina","sia","meena"]
Name
```

Out[49]:
```
['tanvi', 'Madhura', 'Tanvi', 'rina', 'sia', 'meena']
```

In [50]:
```
#Creating a series
Roll_list=pd.Series(Name,index=[1,2,3,4,5,6])
print(Roll_list)
```

```
1      tanvi
2    Madhura
3      Tanvi
4       rina
5        sia
6      meena
dtype: object
```

In [ ]: