In [27]:
```python
# EXP-5
```

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

In [3]:
```python
# Name:Anisha Yogendra Mahajan
# Roll no.: 34
# Sec:A
# Subject:ET1
# Date: 25/08/2025
```

In [4]:
```python
import pandas as pd
```

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

In [7]:
```python
df
```

Out[7]:

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

In [8]:
```python
df.shape
```

Out[8]: (3, 4)

In [9]:
```python
df.size
```

Out[9]: 12

In [10]:
```python
df.ndim
```

Out[10]: 2

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

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

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

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

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

In [19]:
```python
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]:
```python
#finding mean of DSS
print("Mean of DSS:",df5["DSS"].mean())
```

Mean of DSS: 13.25

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

Median of DSS: 14.0

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

Mode of DSS: 0   14
dtype: int64

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

Min of DSS: 9

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

Max of DSS: 16

CREATING SERIES

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

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

In [26]:
```python
#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 [ ]: