

[1]
✓ Os

```
import pandas as pd
s=pd.Series([10,20,30,40])
print(s)
```

▼

```
0    10
1    20
2    30
3    40
dtype: int64
```

[2]
✓ Os

```
s=pd.Series([90,85,88],index=["A","B","C"])
print(s)
```

▼

```
A    90
B    85
C    88
dtype: int64
```

[4]
✓ Os

```
data={
    "Name":["Hafsa","Jahanvi","Tahsveen"],
    "Marks":[99,85,10]
}
df=pd.DataFrame(data)
print(df)
```

▼

```
   Name  Marks
0  Hafsa     99
1 Jahanvi     85
2 Tahsveen    10
```

[21]

```
import pandas as pd
data={
    "Name":["Hafsa","Jahanvi","Tahsveen","Shree",
            "Pallavi","Tushita","Shazian","Meha",
            "Anusha","Jennie","Max"],
    "Marks":[99,85,10,66,87,89,67,90,45,78,92,10]
}
df=pd.DataFrame(data)
print(df.head())
print(df.tail())
print(df.shape)
print(df.columns)
print(df.dtypes)
print(df.info())
```

▼

```
   Name  Marks
0  Hafsa     99
1 Jahanvi     85
```

[21]

```
import pandas as pd
data={
    "Name":["Hafsa","Jahanvi","Tahsveen","Shree",
           "Pallavi","Tushita","Shazian","Meha",
           "Anusha","Jennie","Max"],
    "Marks":[99,85,10,66,87,89,67,90,45,78,92,100]
}
df=pd.DataFrame(data)
print(df.head())
print(df.tail())
print(df.shape)
print(df.columns)
print(df.dtypes)
print(df.info())
```

v

```

      Name  Marks
0    Hafsa    99
1  Jahanvi    85
2  Tahsveen    10
3    Shree    66
4  Pallavi    87
      Name  Marks
7    Mehak    90
8  Afreen    45
9  Anusha    78
10 Jennie    92
11    Max   100
(12, 2)
Index(['Name', 'Marks'], dtype='object')
Name      object
Marks     int64
dtype: object
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 12 entries, 0 to 11
Data columns (total 2 columns):
#   Column  Non-Null Count  Dtype
---  -
0    Name    12 non-null      object
1    Marks   12 non-null      int64
dtypes: int64(1), object(1)
memory usage: 324.0+ bytes
None
```

[27]

✓ 0s

```
print(df["Marks"])
print(df.loc[0])
print(df.loc[1])
print(df[df["Marks"]>85])
df["Result"]=df["Marks"]>=40
print(df)
```

[35]

✓ Os



```
print(df["Marks"])
print(df.loc[0])
print(df.iloc[1])
```



```
... 0      99
     1      85
     2      10
     3      66
     4      87
     5      89
     6      67
     7      90
     8      45
     9      78
    10      92
    11     100
Name: Marks, dtype: int64
Name      Hafsa
Marks      99
Result     True
Name: 0, dtype: object
Name      Jahanvi
Marks      85
Result     True
Name: 1, dtype: object
```

[34]

✓ Os

```
print(df[df["Marks"]>85])
df["Result"]=df["Marks"]>=40
print(df)
df.sort_values(by="Marks", ascending=False)
```



	Name	Marks	Result
0	Hafsa	99	True
4	Pallavi	87	True
5	Tushita	89	True
7	Mehak	90	True
10	Jennie	92	True
11	Max	100	True
	Name	Marks	Result
0	Hafsa	99	True
1	Jahanvi	85	True
2	Tahsveen	10	False
3	Shree	66	True
4	Pallavi	87	True
5	Tushita	89	True
6	Shazian	67	True
7	Mehak	85	True
8	Afreen	85	True

[34]

✓ Os

```
print(df[df["Marks"]>85])
df["Result"]=df["Marks"]>=40
print(df)
df.sort_values(by="Marks", ascending=False)
```

v

	Name	Marks	Result
0	Hafsa	99	True
4	Pallavi	87	True
5	Tushita	89	True
7	Mehak	90	True
10	Jennie	92	True
11	Max	100	True
	Name	Marks	Result
0	Hafsa	99	True
1	Jahanvi	85	True
2	Tahsveen	10	False
3	Shree	66	True
4	Pallavi	87	True
5	Tushita	89	True
6	Shazian	67	True
7	Mehak	90	True
8	Afreen	45	True
9	Anusha	78	True
10	Jennie	92	True
11	Max	100	True

	Name	Marks	Result
11	Max	100	True
0	Hafsa	99	True
10	Jennie	92	True
7	Mehak	90	True
5	Tushita	89	True
4	Pallavi	87	True
1	Jahanvi	85	True
9	Anusha	78	True
6	Shazian	67	True
3	Shree	66	True
8	Afreen	45	True
2	Tahsveen		False



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RAM

Disk

... 5 Tushita 89 True

[61]

✓ 0s



df.sort_values(by="Name", ascending=True)



...

Name Marks Result



8	Afreen	45	True
9	Anusha	78	True
0	Hafsa	99	True
1	Jahanvi	85	True
10	Jennie	92	True
11	Max	100	True
7	Mehak	90	True
4	Pallavi	87	True
6	Shazian	67	True
3	Shree	66	True
2	Tahsveen	10	False
5	Tushita	89	True

[62]

✓ 0s

...

df.sort_index(ascending=False)



11	Max	100	True
10	Jennie	92	True
9	Anusha	78	True
8	Afreen	45	True
7	Mehak	90	True
6	Shazian	67	True
5	Tushita	89	True
4	Pallavi	87	True
3	Shree	66	True
2	Tahsveen	10	False
1	Jahanvi	85	True
0	Hafsa	99	True



10	Jennie	92	True
11	Max	100	True
7	Mehak	90	True
4	Pallavi	87	True
6	Shazian	67	True
3	Shree	66	True
2	Tahsveen	10	False
5	Tushita	89	True

```
df.sort_index(ascending=False)
```

	Name	Marks	Result
11	Max	100	True
10	Jennie	92	True
9	Anusha	78	True
8	Afreen	45	True
7	Mehak	90	True
6	Shazian	67	True
5	Tushita	89	True
4	Pallavi	87	True
3	Shree	66	True
2	Tahsveen	10	False
1	Jahanvi	85	True
0	Hafsa	99	True

```
df=pd.read_csv("students.csv")
print(df)
```

...	Sno	Full Name	Admission No	Branch	Marks
0	1	Abbisetty Harshitha	19709	BSC	78
1	2	Akumalla Kumari	19760	BSC	85
2	3	Alpuri Sri lakshmi	19842	BSC	90
3	4	ALUR GURUPRASAD	20215	BCom	66
4	5	Amarachinta Akhila	20170	BCom	88
5	6	Amreena Muskan	19843	BSC	78
6	7	Anumalaguthi Venkata Sai Deepthi	19887	BCA	85
7	8	Anumula Chaithanya	20522	BSC	90
8	9	Aqsa Shereen	19888	BCA	66
9	10	Arwety Sailokesh	19860	BSC	88