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Disk

[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
```





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[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
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)
```





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✓ RAM Disk

[35]

✓ 0s

```
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
```

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[34]

✓ 0s

```
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	90	True
8	Afreen	85	True





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[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	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	10	False



[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)

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
0	Chitra	87	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 Chaitanya	20522	BSC	90
8	9	Aqsa Shereen	19888	BCA	66
9	10	Arwety Sailokesh	19860	BSC	88