```
import pandas as pd
df=pd.read_csv("/students-1.csv")
print(df)
```

Full Name	Admission No	Branch	Ma
arshitha	19709	BSC	
a Kumari	19760	BSC	
lakshmi	19842	BSC	
RUPRASAD	20215	BCom	
a Akhila	20170	BCom	
a Muskan	19843	BSC	
Deepthi	19887	BCA	
aithanya	20522	BSC	
a Shereen	19888	BCA	
ailokesh	19860	BSC	

```
[20]    df["Marks"].mean()
✓ 0s

  ∨     np.float64(81.4)


[21]    df["Marks"].max()
✓ 0s

  ∨     90


[22]    df["Marks"].min()
✓ 0s

  ∨     66


[23]    df["Marks"].sum()
✓ 0s

  ∨     np.int64(814)


[ ]   ▶
```

```python
import numpy as np
data=np.loadtxt("marks_data.csv", c
print(data)
```

```
[[ 1. 78.]
 [ 2. 85.]
 [ 3. 90.]
 [ 4. 66.]
 [ 5. 88.]]
```

```python
roll=data[:,0]
marks=data[:,1]
print("Roll Number",roll)
print("Marks:",marks)
```

```
Roll Number [1. 2. 3. 4. 5.]
Marks: [78. 85. 90. 66. 88.]
```

```python
average=np.mean(marks)
print("Average Marks:", average)
```

```
Average Marks: 81.4
```

```
df["Marks"].mean()
```

```
np.float64(81.4)
```

```
df["Marks"].max()
```

```
90
```

```
df["Marks"].min()
```

```
66
```

```
df["Marks"].sum()
```

```
np.int64(814)
```

```
df.groupby("Branch")["Marks"].mean(
```

	Marks
Branch	
BCA	75.500000
BCom	77.000000
BSC	84.833333

dtype: float64

```
df["Grade"]=df["Marks"].apply(
    lambda x:"A" if x>=90 else "B"
)
df
```

Full Name	Admission No	Branch	M
Abbisetty Harshitha	19709	BSC	
Akumalla Kumari	19760	BSC	
Alpuri Sri lakshmi	19842	BSC	
ALUR GURUPRASAD	20215	BCom	
Amarachinta Akhila	20170	BCom	
Amreena Muskan	19843	BSC	
Anumalaguthi Venkata Sai Deepthi	19887	BCA	
Anumula Chaithanya	20522	BSC	
Aqsa Shereen	19888	BCA	
Arwety	19860	BSC	

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

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

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

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

```python
import pandas as pd
data={
    "Name":["bharath","jp","venky"],
    "Marks":[85,90,88]
}
df=pd.DataFrame(data)
print(df)
```

```
      Name  Marks
0  bharath     85
1       jp     90
2    venky     88
```

```python
df.head()
```

```
dtype: int64
```

```python
import pandas as pd
data={
    "Name":["bharath","jp","venky"],
    "Marks":[85,90,88]
}
df=pd.DataFrame(data)
print(df)
```

```
      Name  Marks
0  bharath     85
1       jp     90
2    venky     88
```

[ ]

```python
df.head()
```

	Name	Marks
0	bharath	85
1	jp	90
2	venky	88

[ ]

```python
df.tail()
```

	Name	Marks
0	bharath	85
1	jp	90
2	venky	88