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main.py

```
1 import pandas as pd
2 data={
3     "Name": ["prasad", "chan
4         "Marks": [80, 88, 90]
5     }
6 df=pd.DataFrame(data)
7 print(df)
```

▼ ↗ IPython

	Name	Marks
0	prasad	80
1	chandu	88
2	vamsi	90

...Program finished with exit code 0
Press ENTER to exit console.

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The screenshot shows a Jupyter Notebook interface. At the top, there's a toolbar with buttons for Run, Debug, Stop, and Share. Below the toolbar, a code cell contains the following Python code:

```
import pandas as pd
s=pd.Series([90,85,88],index=[ "print(s)
```

The output cell below the code shows the execution results:

```
|      90
|     85
|     88
dtype: int64
```

At the bottom of the output cell, the message "...Program finished with exit code 0" is displayed, followed by "Press ENTER to exit console.".

The screenshot shows a Jupyter Notebook interface with the following components:

- Toolbar:** Includes icons for file operations (cloud, download, run, debug, stop, share).
- Code Cell:** Contains Python code:

```
import pandas as pd
s=pd.Series([90,85,88],index=["A","B","C"])
print(s)
```
- Output Cell:** Displays the output of the printed series:

```
A    90
B    85
C    88
dtype: int64
```
- Console:** Shows the completion message:

```
...Program finished with exit code 0
Press ENTER to exit console.
```

The screenshot shows a web-based Python development environment. At the top, there's a toolbar with icons for file operations (New, Open, Save, Upload), a green 'Run' button, a dropdown menu, a blue 'Debug' button, and a red 'Stop' button. Below the toolbar, the file 'main.py' is open, displaying the following code:

```
1 import pandas as pd
2 s=pd.Series([10,20,30,40,50]
3 print(s)
```

Below the code editor is a terminal window showing the output of the program:

```
0      10
1      20
2      30
3      40
4      50
dtype: int64
```

At the bottom of the terminal window, the message "...Program finished with exit code 0" is displayed in green, followed by "Press ENTER to exit console." in white text.

The screenshot shows a Jupyter Notebook interface with the following code in the code cell:

```
import pandas as pd
data={
    "Name": ["prasad", "chandu",
              "Marks": [80, 88, 90, 80, 87, 89
}
df=pd.DataFrame(data)
print(df)
print(df.head())
print(df.tail())
```

The output cell displays three tables representing the DataFrame, its head, and its tail:

	Name	Marks
0	prasad	80
1	chandu	88
2	vamsi	90
3	lucky	80
4	lakshmi	87
5	Jp	89

	Name	Marks
0	prasad	80
1	chandu	88
2	vamsi	90
3	lucky	80
4	lakshmi	87

	Name	Marks
1	chandu	88
2	vamsi	90
3	lucky	80
4	lakshmi	87
5	Jp	89

...Program finished with exit code 0

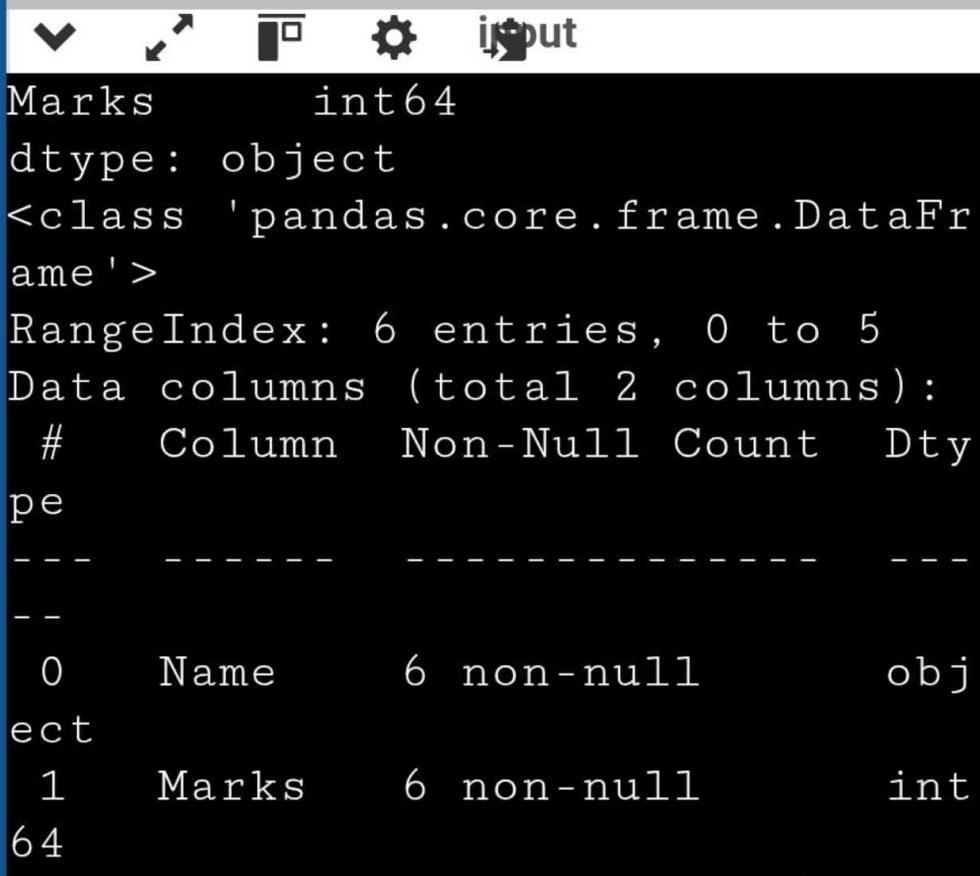
```
import pandas as pd
data={
    "Name": ["prasad", "chandu", "vamsi", "lucky", "lakshmi", "Jp"],
    "Marks": [80, 88, 90, 80, 87, 89]
}
df=pd.DataFrame(data)
print(df[df["Marks"]>=80])
```

	Name	Marks
0	prasad	80
1	chandu	88
2	vamsi	90
3	lucky	80
4	lakshmi	87
5	Jp	89

...Program finished with exit code 0

Press ENTER to exit console.

```
import pandas as pd
data={
    "Name": ["prasad", "chandu", "Rajesh", "Karan", "Amit", "Vishal"],
    "Marks": [80, 88, 90, 80, 87, 89]
}
df=pd.DataFrame(data)
print(df.dtypes)
print(df.info())
print(df.loc[0])
```

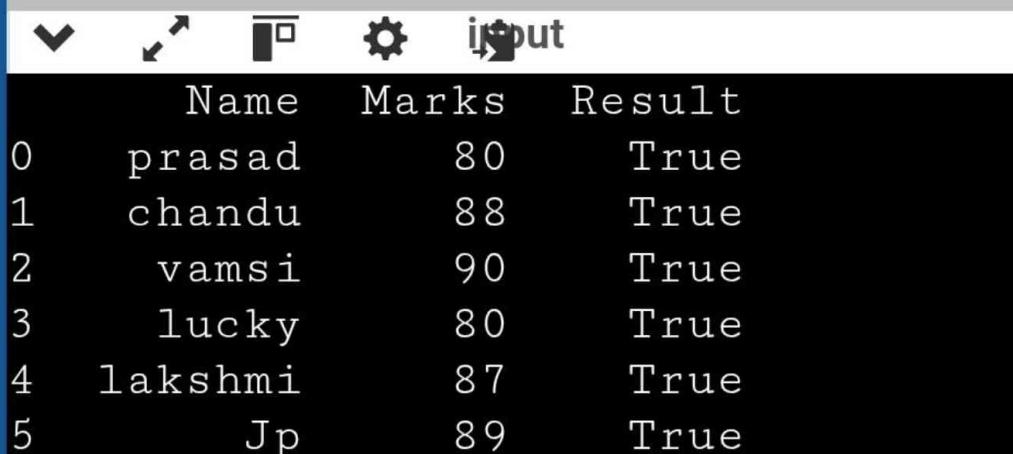


Marks int64
dtype: object
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 6 entries, 0 to 5
Data columns (total 2 columns):
 # Column Non-Null Count Dtype
 -- -- -- -- --
 0 Name 6 non-null object
 1 Marks 6 non-null int64
dtypes: int64(1), object(1)
memory usage: 228.0+ bytes
None

Name prasad
Marks 80
Name: 0, dtype: object

...Program finished with exit code 0
Press ENTER to exit console.

```
import pandas as pd
data={
    "Name": ["prasad", "chandu", "vamsi", "lucky", "lakshmi", "Jp"],
    "Marks": [80, 88, 90, 80, 87, 89]
}
df=pd.DataFrame(data)
df["Result"] = df["Marks"] >= 40
print(df)
```



	Name	Marks	Result
0	prasad	80	True
1	chandu	88	True
2	vamsi	90	True
3	lucky	80	True
4	lakshmi	87	True
5	Jp	89	True

```
...Program finished with exit code 0
Press ENTER to exit console.
```

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Run Debug Stop Share

py

```
import pandas as pd
data={
    "Name": ["prasad", "chandu",
              "Marks": [80, 88, 90, 80, 87, 89
            }
df=pd.DataFrame(data)
df["Marks"]
print(df)
```

▼ ▶ ⌂ ⚙️ input

	Name	Marks
0	prasad	80
1	chandu	88
2	vamsi	90
3	lucky	80
4	lakshmi	87
5	Jp	89

...Program finished with exit code 0
Press ENTER to exit console.

The screenshot shows a Jupyter Notebook interface with the following code in a cell:

```
import pandas as pd
data={
    "Name": ["prasad", "chandu", "vamsi", "lucky", "lakshmi", "Jp"],
    "Marks": [80, 88, 90, 80, 87, 35]
}
df=pd.DataFrame(data)
df.sort_values(by="Marks", ascending=False)
print(df)
```

The output of the code is displayed below the cell, showing a DataFrame:

	Name	Marks
0	prasad	80
1	chandu	88
2	vamsi	90
3	lucky	80
4	lakshmi	87
5	Jp	35

...Program finished with exit code 0
Press ENTER to exit console.



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4



Untitled4.ipynb



RAM



Disk



[9]

✓ Os



```
import pandas as pd  
df=pd.read_csv('stu  
print(df)
```

Delete cell

Ctrl+M D



Sno

1		Abbiset
2		Akum
3		Alpuri
4		ALUR
5		Amarach
6		Amr
7	Anumalaguthi	Venkata
8		Anumula
9		
10		Arwet

What can I help you build?



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☰ Untitled4.ipynb



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✓ RAM Disk

[9]
✓ Os

```
import pandas as pd  
df=pd.read_csv("/content/stu  
print(df)
```

↑ ↓ ⚡ 🗑 ⋮

...	Admission No	Branch	Marks
19709	BSC	78	
19760	BSC	85	
19842	BSC	90	
20215	BCom	66	
20170	BCom	88	
19843	BSC	78	
19887	BCA	85	
20522	BSC	90	
19888	BCA	66	
19860	BSC	88	

Code cell output actions

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Untitled4.ipynb



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RAM



Disk



▼ ^

	19888	BCA	66
	19860	BSC	88

[13]

✓ 0s

df["Marks"].mean()

▼

np.float64(81.4)

Code cell output actions

[14]

✓ 0s

df["Marks"].max()

▼

90

[15]

df["Marks"].min()

▼

66



[16]

✓ 0s



df["Marks"].sum()

▼

... np.int64(814)

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T



RAM



Disk



✓ Os



np.int64(814)



[20]

✓ Os



df

Move cell up
Ctrl+M K

...

Marks

Branch

BCA 75.500000

BCom 77.000000

BSC 84.833333

dtype: float64

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RAM



Disk



np.int64(814)



[21]

✓ Os



pby("Branch")["Marks"].max()



Marks

Branch

BCA

85

BCom

88

BSC

90

dtype: int64

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T



RAM



Disk



vs



np.int64(814)



[22]

✓ 0s



pby("Branch")["Marks"].min()



...

Marks

Branch

BCA

66

BCom

66

BSC

78

dtype: int64

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RAM

Disk



np.int64(814)



[23]

✓ 0s



pby("Branch")["Marks"].sum()



...

Marks

Branch

BCA 151

BCom 154

BSC 509

dtype: int64

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RAM
Disk

▼ ^

BCom

154

BSC

509

dtype: int64



[26]

✓ Os



mbda x:"A"if x>=90 else "B")

▼

	... sion	No	Branch	Marks	Grade
1	19709		BSC	78	B
2	19760		BSC	85	B
3	19842		BSC	90	A
4	20215		BCom	66	B
5	20170		BCom	88	B
6	19843		BSC	78	B
7	19887		BCA	85	B
8	20522		BSC	90	A
9	19888		BCA	66	B
10	19860		BSC	88	B

What can I help you build?



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RAM

Disk

▼

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Average: 81.4



[39]

✓ 0s



```
print("Average:",df["Marks"])
print("Topper:",df.loc[df["M
print("passed students:")
print(df[df["Marks"]>85])
```

▼

... Average: 81.4

Topper: Sno

Full Name Alpuri Sri

Admission No

Branch

Marks

Grade

Name: 2, dtype: object

passed students:

Sno	Full Name
2	3 Alpuri Sri lakshmi
4	5 Amarachinta Akhila
7	8 Anumula Chaithanya
9	10 Arwety Sailokesh