

NAME:-SARTHAK MODAK

REG NO. 21BRS1218

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```
import pandas as pd

df=pd.DataFrame([[463,18426,200,49,96],[350,10773,183,10,73],[275,12898,183,46,65],[375,13704,164,30,82],[228,9577,176,25,53],
                [260,6083,166,5,32],[404,14234,169,25,93],[301,10480,215,25,54],[187,6721,189,11,45],[287,9619,172,16,55]])
df
```

| | 0 | 1 | 2 | 3 | 4 |
|---|-----|-------|-----|----|----|
| 0 | 463 | 18426 | 200 | 49 | 96 |
| 1 | 350 | 10773 | 183 | 10 | 73 |
| 2 | 275 | 12898 | 183 | 46 | 65 |
| 3 | 375 | 13704 | 164 | 30 | 82 |
| 4 | 228 | 9577 | 176 | 25 | 53 |
| 5 | 260 | 6083 | 166 | 5 | 32 |
| 6 | 404 | 14234 | 169 | 25 | 93 |
| 7 | 301 | 10480 | 215 | 25 | 54 |
| 8 | 187 | 6721 | 189 | 11 | 45 |
| 9 | 287 | 9619 | 172 | 16 | 55 |

```
df.columns=['Matches','Runs','Highest',100,50]
df.index=['Sachin Tendulkar','MS Dhoni','Virat Kohli','Ricky Ponting','AB de Villiers','Brendon McCullum','Kumar Sangakkara',
```

df

| | Matches | Runs | Highest | 100 | 50 |
|------------------|---------|-------|---------|-----|----|
| Sachin Tendulkar | 463 | 18426 | 200 | 49 | 96 |
| MS Dhoni | 350 | 10773 | 183 | 10 | 73 |
| Virat Kohli | 275 | 12898 | 183 | 46 | 65 |
| Ricky Ponting | 375 | 13704 | 164 | 30 | 82 |
| AB de Villiers | 228 | 9577 | 176 | 25 | 53 |
| Brendon McCullum | 260 | 6083 | 166 | 5 | 32 |
| Kumar Sangakkara | 404 | 14234 | 169 | 25 | 93 |
| Chris Gayle | 301 | 10480 | 215 | 25 | 54 |
| Viv Richards | 187 | 6721 | 189 | 11 | 45 |
| Adam Gilchrist | 287 | 9619 | 172 | 16 | 55 |

```
df.info()

<class 'pandas.core.frame.DataFrame'>
Index: 10 entries, Sachin Tendulkar to Adam Gilchrist
Data columns (total 5 columns):
#   Column      Non-Null Count  Dtype
---  ---
0    Matches    10 non-null    int64
1    Runs       10 non-null    int64
2    Highest    10 non-null    int64
3    100        10 non-null    int64
4    50         10 non-null    int64
dtypes: int64(5)
memory usage: 480.0+ bytes
```

```
df.describe()
```

| | Matches | Runs | Highest | 100 | 50 |
|-------|------------|--------------|------------|-----------|-----------|
| count | 10.000000 | 10.000000 | 10.000000 | 10.000000 | 10.000000 |
| mean | 313.000000 | 11251.500000 | 181.700000 | 24.200000 | 64.800000 |
| std | 84.438011 | 3691.228018 | 16.152399 | 14.672726 | 20.953918 |
| min | 187.000000 | 6083.000000 | 164.000000 | 5.000000 | 32.000000 |
| 25% | 263.750000 | 9587.500000 | 169.750000 | 12.250000 | 53.250000 |

df.loc['AB de Villiers']

Matches 228
Runs 9577
Highest 176
100 25
50 53
Name: AB de Villiers, dtype: int64

df.isnull()

| | Matches | Runs | Highest | 100 | 50 |
|------------------|---------|-------|---------|-------|-------|
| Sachin Tendulkar | False | False | False | False | False |
| MS Dhoni | False | False | False | False | False |
| Virat Kohli | False | False | False | False | False |
| Ricky Ponting | False | False | False | False | False |
| AB de Villiers | False | False | False | False | False |
| Brendon McCullum | False | False | False | False | False |
| Kumar Sangakkara | False | False | False | False | False |
| Chris Gayle | False | False | False | False | False |
| Viv Richards | False | False | False | False | False |
| Adam Gilchrist | False | False | False | False | False |