

```
In [16]: import pandas as pd
df=pd.read_csv(r"C:\Users\Ramya\OneDrive\Documents\dataset\data.csv")
df
```

```
Out[16]:
```

	NAME	CLASS	SECTION	ROLLNO	EMAIL	PHNO	MARKS
0	B.Yamuna	AIR	A	37	yamunalovely9@gmail.com	8897859569	95
1	P.Devi	AIR	A	58	gundrasivesaidurga@gmail.com	9347791232	97
2	J.Ramya	AIR	A	52	jivvireddyramyasri@gmail.com	9676976652	90
3	K.Prasanthi	AIR	A	41	kesanakurthiprasanthi@gmail.com	7382934586	85
4	K.V. Niharika	AIR	A	54	karreveeraniharika@gmail.com	9182532802	96
5	K.Sri Niharika	AIR	A	9	karresriniharika@gmail.com	6300408089	90
6	Y.Kaveri	AIR	A	3	yendamurikaveri@gmail.com	7386015549	94
7	P.Durga	AIR	A	24	durgarani@gmail.com	8466845651	89
8	P.Akhila	AIR	A	29	bottaakhila@gmail.com	8397941799	90
9	P.Neelima	AIR	A	36	pinapalaramesh@gmail.com	7386803023	93

```
In [17]: df.isnull()
```

```
Out[17]:
```

	NAME	CLASS	SECTION	ROLLNO	EMAIL	PHNO	MARKS
0	False	False	False	False	False	False	False
1	False	False	False	False	False	False	False
2	False	False	False	False	False	False	False
3	False	False	False	False	False	False	False
4	False	False	False	False	False	False	False
5	False	False	False	False	False	False	False
6	False	False	False	False	False	False	False
7	False	False	False	False	False	False	False
8	False	False	False	False	False	False	False
9	False	False	False	False	False	False	False

```
In [18]: df.head()
```

Out[18]:		NAME	CLASS	SECTION	ROLLNO	EMAIL	PHNO	MARKS
	0	B.Yamuna	AIR	A	37	yamunalovely9@gmail.com	8897859569	95
	1	P.Devi	AIR	A	58	gundrasivesaidurga@gmail.com	9347791232	97
	2	J.Ramya	AIR	A	52	jivvireddyramyasri@gmailcom	9676976652	90
	3	K.Prasanthi	AIR	A	41	kesanakurthiprasanthi@gmail.com	7382934586	85
	4	K.V. Niharika	AIR	A	54	karreveeraniharika@gmail.com	9182532802	96

In [19]: `df.tail()`

Out[19]:		NAME	CLASS	SECTION	ROLLNO	EMAIL	PHNO	MARKS
	5	K.Sri Niharika	AIR	A	9	karresriniharika@gmail.com	6300408089	90
	6	Y.Kaveri	AIR	A	3	yendamurikaveri@gmail.com	7386015549	94
	7	P.Durga	AIR	A	24	durgarani@gmail.com	8466845651	89
	8	P.Akhila	AIR	A	29	bottaakhila@gmail.com	8397941799	90
	9	P.Neelima	AIR	A	36	pinapalaramesh@gmail.com	7386803023	93

In [20]: `df['MARKS']=df['MARKS'].fillna(df['MARKS'].mean())`
`df['MARKS']`

Out[20]:

```
0    95
1    97
2    90
3    85
4    96
5    90
6    94
7    89
8    90
9    93
Name: MARKS, dtype: int64
```

In [21]: `df['MARKS']=df['MARKS'].fillna(df['MARKS'].sum())`
`df['MARKS']`

Out[21]:

```
0    95
1    97
2    90
3    85
4    96
5    90
6    94
7    89
8    90
9    93
Name: MARKS, dtype: int64
```

In [22]: `df.shape`

Out[22]: (10, 7)

```
In [23]: df.columns
```

```
Out[23]: Index(['NAME', 'CLASS', 'SECTION', 'ROLLNO', 'EMAIL', 'PHNO',  
              'MARKS'],  
              dtype='object')
```

```
In [24]: df.index
```

```
Out[24]: RangeIndex(start=0, stop=10, step=1)
```

```
In [25]: df.dtypes
```

```
Out[25]: NAME                object  
CLASS                object  
SECTION              object  
ROLLNO                int64  
                EMAIL  object  
PHNO                int64  
MARKS                int64  
dtype: object
```

```
In [27]: df.NAME
```

```
Out[27]: 0      B.Yamuna  
1      P.Devi  
2      J.Ramya  
3      K.Prasanthi  
4      K.V. Niharika  
5      K.Sri Niharika  
6      Y.Kaveri  
7      P.Durga  
8      P.Akhila  
9      P.Neelima  
Name: NAME, dtype: object
```

```
In [28]: df.info
```

```
Out[28]: <bound method DataFrame.info of
EMAIL \
0      B.Yamuna    AIR    A    37      yamunalovely9@gmail.com
1      P.Devi     AIR    A    58      gundrasivesaidurga@gmail.com
2      J.Ramya    AIR    A    52      jivvireddyramyasri@gmailcom
3      K.Prasanthi AIR    A    41      kesanakurthiprasanthi@gmail.com
4      K.V. Niharika AIR    A    54      karreveeraniharika@gmail.com
5      K.Sri Niharika AIR    A    9      karresriniharika@gmail.com
6      Y.Kaveri   AIR    A    3      yendamurikaveri@gmail.com
7      P.Durga    AIR    A    24      durgarani@gmail.com
8      P.Akhila   AIR    A    29      bottaakhila@gmail.com
9      P.Neelima   AIR    A    36      pinapalaramesh@gmail.com

      PHNO  MARKS
0  8897859569    95
1  9347791232    97
2  9676976652    90
3  7382934586    85
4  9182532802    96
5  6300408089    90
6  7386015549    94
7  8466845651    89
8  8397941799    90
9  7386803023    93 >
```

```
In [29]: df[2:6]
```

```
Out[29]:
```

	NAME	CLASS	SECTION	ROLLNO	EMAIL	PHNO	MARKS
2	J.Ramya	AIR	A	52	jivvireddyramyasri@gmailcom	9676976652	90
3	K.Prasanthi	AIR	A	41	kesanakurthiprasanthi@gmail.com	7382934586	85
4	K.V. Niharika	AIR	A	54	karreveeraniharika@gmail.com	9182532802	96
5	K.Sri Niharika	AIR	A	9	karresriniharika@gmail.com	6300408089	90

```
In [31]: data={
    "Name":["Rams","Prash","yamuna","Sri","devs","kaveri","Rasi"],
    "Age": [12,23,45,67,23,23,12]
  })
data
```

```
Out[31]: {'Name': ['Rams', 'Prash', 'yamuna', 'Sri', 'devs', 'kaveri', 'Rasi'],
 'Age': [12, 23, 45, 67, 23, 23, 12]}
```

```
In [ ]:
```

```
In [ ]:
```