

```
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	jivireddyramyasri@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
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', 'MARKS', 'EMAIL', 'PHNO',  
               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@gmail.com
   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]

	NAME	CLASS	SECTION	ROLLNO	EMAIL	PHNO	MARKS
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

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 []: