```
In [3]: #Sorting removing duplicates and dropping rows and columns
        import pandas as pd
        df=pd.read_csv("D:\\Python-Workspace\\Pandas\\finalstudentresult.csv")
        print(df)
```

```
      htno      name  telugu  english  hindi  maths  science  social  total  \
0     100    Ramesh      50       60     66     98       66      55    395
1     101    Rajesh      45       67     34     67       66      78    357
2     102    Rossum      56       88     56     99       44      77    420
3     103      Raji      56       78     34     56       88      55    367
4     104    Kalyan      51       63     62     93       67      51    387
5     105   Karthik      48       62     39     68       65      88    370
6     106    Kambli      53       81     59     92       48      73    406
7     107   Praveen      46       88     74     86       78      45    417
8     108    Ganesh      53       62     76     88       76      35    390
9     109      Nags      55       77     44     77       86      58    397
10    110     Biswa      66       48     86     95       48      47    390
11    111    Ritchi      66       68     64     76       98      75    447
12    104    Kalyan      51       63     62     93       67      51    387
13    112   shareef      50       63     99     90       76      67    445
14    113      sonu      60       89     98     87       77      68    479
15    114    Rajesh      45       67     77     55       66      46    356
16    115    Rakesh      67       78     88     78       67      49    427

    percent         grade
0     65.83        SECOND
1     59.50         THIRD
2     70.00         FIRST
3     61.17        SECOND
4     64.50        SECOND
5     61.67        SECOND
6     67.67        SECOND
7     69.50        SECOND
8     65.00        SECOND
9     66.17        SECOND
10    65.00        SECOND
11    74.50         FIRST
12    64.50        SECOND
13    74.17         FIRST
14    79.83   DISTINCTION
15    59.33         THIRD
16    71.17         FIRST
```

```
In [5]: df.sort_values(["percent"])    #By default Ascending Order
```

Out[5]:

	htno	name	telugu	english	hindi	maths	science	social	total	percent	grade
15	114	Rajesh	45	67	77	55	66	46	356	59.33	THIRD
1	101	Rajesh	45	67	34	67	66	78	357	59.50	THIRD
3	103	Raji	56	78	34	56	88	55	367	61.17	SECOND
5	105	Karthik	48	62	39	68	65	88	370	61.67	SECOND
12	104	Kalyan	51	63	62	93	67	51	387	64.50	SECOND
4	104	Kalyan	51	63	62	93	67	51	387	64.50	SECOND
8	108	Ganesh	53	62	76	88	76	35	390	65.00	SECOND
10	110	Biswa	66	48	86	95	48	47	390	65.00	SECOND
0	100	Ramesh	50	60	66	98	66	55	395	65.83	SECOND
9	109	Nags	55	77	44	77	86	58	397	66.17	SECOND
6	106	Kambli	53	81	59	92	48	73	406	67.67	SECOND
7	107	Praveen	46	88	74	86	78	45	417	69.50	SECOND
2	102	Rossum	56	88	56	99	44	77	420	70.00	FIRST
16	115	Rakesh	67	78	88	78	67	49	427	71.17	FIRST
13	112	shareef	50	63	99	90	76	67	445	74.17	FIRST
11	111	Ritchi	66	68	64	76	98	75	447	74.50	FIRST
14	113	sonu	60	89	98	87	77	68	479	79.83	DISTINCTION

```
In [6]: print(df)
```

	htno	name	telugu	english	hindi	maths	science	social	total
0	100	Ramesh	50	60	66	98	66	55	395
1	101	Rajesh	45	67	34	67	66	78	357
2	102	Rossum	56	88	56	99	44	77	420
3	103	Raji	56	78	34	56	88	55	367
4	104	Kalyan	51	63	62	93	67	51	387
5	105	Karthik	48	62	39	68	65	88	370
6	106	Kambli	53	81	59	92	48	73	406
7	107	Praveen	46	88	74	86	78	45	417
8	108	Ganesh	53	62	76	88	76	35	390
9	109	Nags	55	77	44	77	86	58	397
10	110	Biswa	66	48	86	95	48	47	390
11	111	Ritchi	66	68	64	76	98	75	447
12	104	Kalyan	51	63	62	93	67	51	387
13	112	shareef	50	63	99	90	76	67	445
14	113	sonu	60	89	98	87	77	68	479
15	114	Rajesh	45	67	77	55	66	46	356
16	115	Rakesh	67	78	88	78	67	49	427

	percent	grade
0	65.83	SECOND
1	59.50	THIRD
2	70.00	FIRST
3	61.17	SECOND
4	64.50	SECOND
5	61.67	SECOND
6	67.67	SECOND
7	69.50	SECOND
8	65.00	SECOND
9	66.17	SECOND
10	65.00	SECOND
11	74.50	FIRST
12	64.50	SECOND
13	74.17	FIRST
14	79.83	DISTINCTION
15	59.33	THIRD
16	71.17	FIRST

```
In [7]: df1=df.sort_values(["percent"])   #By default Ascending Order
        print(df1)
```

```
     htno      name   telugu   english   hindi   maths   science   social   total  \
15    114    Rajesh       45        67      77      55        66       46     356
1     101    Rajesh       45        67      34      67        66       78     357
3     103      Raji       56        78      34      56        88       55     367
5     105    Karthik      48        62      39      68        65       88     370
12    104    Kalyan       51        63      62      93        67       51     387
4     104    Kalyan       51        63      62      93        67       51     387
8     108    Ganesh       53        62      76      88        76       35     390
10    110     Biswa       66        48      86      95        48       47     390
0     100    Ramesh       50        60      66      98        66       55     395
9     109      Nags       55        77      44      77        86       58     397
6     106    Kambli       53        81      59      92        48       73     406
7     107    Praveen      46        88      74      86        78       45     417
2     102    Rossum       56        88      56      99        44       77     420
16    115    Rakesh       67        78      88      78        67       49     427
13    112    shareef      50        63      99      90        76       67     445
11    111    Ritchi       66        68      64      76        98       75     447
14    113      sonu       60        89      98      87        77       68     479

     percent       grade
15     59.33       THIRD
1      59.50       THIRD
3      61.17      SECOND
5      61.67      SECOND
12     64.50      SECOND
4      64.50      SECOND
8      65.00      SECOND
10     65.00      SECOND
0      65.83      SECOND
9      66.17      SECOND
6      67.67      SECOND
7      69.50      SECOND
2      70.00       FIRST
16     71.17       FIRST
13     74.17       FIRST
11     74.50       FIRST
14     79.83  DISTINCTION
```

```
In [8]: df1=df.sort_values(["percent"])[::-1]    #Descending Order
        print(df1)
```

	htno	name	telugu	english	hindi	maths	science	social	total \
14	113	sonu	60	89	98	87	77	68	479
11	111	Ritchi	66	68	64	76	98	75	447
13	112	shareef	50	63	99	90	76	67	445
16	115	Rakesh	67	78	88	78	67	49	427
2	102	Rossum	56	88	56	99	44	77	420
7	107	Praveen	46	88	74	86	78	45	417
6	106	Kambli	53	81	59	92	48	73	406
9	109	Nags	55	77	44	77	86	58	397
0	100	Ramesh	50	60	66	98	66	55	395
10	110	Biswa	66	48	86	95	48	47	390
8	108	Ganesh	53	62	76	88	76	35	390
4	104	Kalyan	51	63	62	93	67	51	387
12	104	Kalyan	51	63	62	93	67	51	387
5	105	Karthik	48	62	39	68	65	88	370
3	103	Raji	56	78	34	56	88	55	367
1	101	Rajesh	45	67	34	67	66	78	357
15	114	Rajesh	45	67	77	55	66	46	356

	percent	grade
14	79.83	DISTINCTION
11	74.50	FIRST
13	74.17	FIRST
16	71.17	FIRST
2	70.00	FIRST
7	69.50	SECOND
6	67.67	SECOND
9	66.17	SECOND
0	65.83	SECOND
10	65.00	SECOND
8	65.00	SECOND
4	64.50	SECOND
12	64.50	SECOND
5	61.67	SECOND
3	61.17	SECOND
1	59.50	THIRD
15	59.33	THIRD

```
In [9]: print(df)
```

	htno	name	telugu	english	hindi	maths	science	social	total	\
0	100	Ramesh	50	60	66	98	66	55	395	
1	101	Rajesh	45	67	34	67	66	78	357	
2	102	Rossum	56	88	56	99	44	77	420	
3	103	Raji	56	78	34	56	88	55	367	
4	104	Kalyan	51	63	62	93	67	51	387	
5	105	Karthik	48	62	39	68	65	88	370	
6	106	Kambli	53	81	59	92	48	73	406	
7	107	Praveen	46	88	74	86	78	45	417	
8	108	Ganesh	53	62	76	88	76	35	390	
9	109	Nags	55	77	44	77	86	58	397	
10	110	Biswa	66	48	86	95	48	47	390	
11	111	Ritchi	66	68	64	76	98	75	447	
12	104	Kalyan	51	63	62	93	67	51	387	
13	112	shareef	50	63	99	90	76	67	445	
14	113	sonu	60	89	98	87	77	68	479	
15	114	Rajesh	45	67	77	55	66	46	356	
16	115	Rakesh	67	78	88	78	67	49	427	

	percent	grade
0	65.83	SECOND
1	59.50	THIRD
2	70.00	FIRST
3	61.17	SECOND
4	64.50	SECOND
5	61.67	SECOND
6	67.67	SECOND
7	69.50	SECOND
8	65.00	SECOND
9	66.17	SECOND
10	65.00	SECOND
11	74.50	FIRST
12	64.50	SECOND
13	74.17	FIRST
14	79.83	DISTINCTION
15	59.33	THIRD
16	71.17	FIRST

```
In [10]: df1=df.sort_values(["percent"],ascending=False)
         print(df1)
```

```
    htno     name  telugu  english  hindi  maths  science  social  total  \
14   113     sonu      60       89     98     87       77      68    479
11   111   Ritchi      66       68     64     76       98      75    447
13   112   shareef     50       63     99     90       76      67    445
16   115   Rakesh      67       78     88     78       67      49    427
2    102   Rossum      56       88     56     99       44      77    420
7    107   Praveen     46       88     74     86       78      45    417
6    106   Kambli      53       81     59     92       48      73    406
9    109    Nags       55       77     44     77       86      58    397
0    100   Ramesh      50       60     66     98       66      55    395
10   110   Biswa       66       48     86     95       48      47    390
8    108   Ganesh      53       62     76     88       76      35    390
12   104   Kalyan      51       63     62     93       67      51    387
4    104   Kalyan      51       63     62     93       67      51    387
5    105   Karthik     48       62     39     68       65      88    370
3    103    Raji       56       78     34     56       88      55    367
1    101   Rajesh      45       67     34     67       66      78    357
15   114   Rajesh      45       67     77     55       66      46    356

    percent       grade
14    79.83  DISTINCTION
11    74.50        FIRST
13    74.17        FIRST
16    71.17        FIRST
2     70.00        FIRST
7     69.50       SECOND
6     67.67       SECOND
9     66.17       SECOND
0     65.83       SECOND
10    65.00       SECOND
8     65.00       SECOND
12    64.50       SECOND
4     64.50       SECOND
5     61.67       SECOND
3     61.17       SECOND
1     59.50        THIRD
15    59.33        THIRD
```

```
In [11]: df.sort_values(["maths"])   #Ascending Order
```

Out[11]:

	htno	name	telugu	english	hindi	maths	science	social	total	percent	grade
15	114	Rajesh	45	67	77	55	66	46	356	59.33	THIRD
3	103	Raji	56	78	34	56	88	55	367	61.17	SECOND
1	101	Rajesh	45	67	34	67	66	78	357	59.50	THIRD
5	105	Karthik	48	62	39	68	65	88	370	61.67	SECOND
11	111	Ritchi	66	68	64	76	98	75	447	74.50	FIRST
9	109	Nags	55	77	44	77	86	58	397	66.17	SECOND
16	115	Rakesh	67	78	88	78	67	49	427	71.17	FIRST
7	107	Praveen	46	88	74	86	78	45	417	69.50	SECOND
14	113	sonu	60	89	98	87	77	68	479	79.83	DISTINCTION
8	108	Ganesh	53	62	76	88	76	35	390	65.00	SECOND
13	112	shareef	50	63	99	90	76	67	445	74.17	FIRST
6	106	Kambli	53	81	59	92	48	73	406	67.67	SECOND
4	104	Kalyan	51	63	62	93	67	51	387	64.50	SECOND
12	104	Kalyan	51	63	62	93	67	51	387	64.50	SECOND
10	110	Biswa	66	48	86	95	48	47	390	65.00	SECOND
0	100	Ramesh	50	60	66	98	66	55	395	65.83	SECOND
2	102	Rossum	56	88	56	99	44	77	420	70.00	FIRST

```
In [12]: df.sort_values(["maths"])[::-1]    #Descending Order
```

Out[12]:

	htno	name	telugu	english	hindi	maths	science	social	total	percent	grade
2	102	Rossum	56	88	56	99	44	77	420	70.00	FIRST
0	100	Ramesh	50	60	66	98	66	55	395	65.83	SECOND
10	110	Biswa	66	48	86	95	48	47	390	65.00	SECOND
12	104	Kalyan	51	63	62	93	67	51	387	64.50	SECOND
4	104	Kalyan	51	63	62	93	67	51	387	64.50	SECOND
6	106	Kambli	53	81	59	92	48	73	406	67.67	SECOND
13	112	shareef	50	63	99	90	76	67	445	74.17	FIRST
8	108	Ganesh	53	62	76	88	76	35	390	65.00	SECOND
14	113	sonu	60	89	98	87	77	68	479	79.83	DISTINCTION
7	107	Praveen	46	88	74	86	78	45	417	69.50	SECOND
16	115	Rakesh	67	78	88	78	67	49	427	71.17	FIRST
9	109	Nags	55	77	44	77	86	58	397	66.17	SECOND
11	111	Ritchi	66	68	64	76	98	75	447	74.50	FIRST
5	105	Karthik	48	62	39	68	65	88	370	61.67	SECOND
1	101	Rajesh	45	67	34	67	66	78	357	59.50	THIRD
3	103	Raji	56	78	34	56	88	55	367	61.17	SECOND
15	114	Rajesh	45	67	77	55	66	46	356	59.33	THIRD

```
In [13]: print(df)
```

	htno	name	telugu	english	hindi	maths	science	social	total \
0	100	Ramesh	50	60	66	98	66	55	395
1	101	Rajesh	45	67	34	67	66	78	357
2	102	Rossum	56	88	56	99	44	77	420
3	103	Raji	56	78	34	56	88	55	367
4	104	Kalyan	51	63	62	93	67	51	387
5	105	Karthik	48	62	39	68	65	88	370
6	106	Kambli	53	81	59	92	48	73	406
7	107	Praveen	46	88	74	86	78	45	417
8	108	Ganesh	53	62	76	88	76	35	390
9	109	Nags	55	77	44	77	86	58	397
10	110	Biswa	66	48	86	95	48	47	390
11	111	Ritchi	66	68	64	76	98	75	447
12	104	Kalyan	51	63	62	93	67	51	387
13	112	shareef	50	63	99	90	76	67	445
14	113	sonu	60	89	98	87	77	68	479
15	114	Rajesh	45	67	77	55	66	46	356
16	115	Rakesh	67	78	88	78	67	49	427

	percent	grade
0	65.83	SECOND
1	59.50	THIRD
2	70.00	FIRST
3	61.17	SECOND
4	64.50	SECOND
5	61.67	SECOND
6	67.67	SECOND
7	69.50	SECOND
8	65.00	SECOND
9	66.17	SECOND
10	65.00	SECOND
11	74.50	FIRST
12	64.50	SECOND
13	74.17	FIRST
14	79.83	DISTINCTION
15	59.33	THIRD
16	71.17	FIRST

```
In [14]: df.drop(columns="percent")
```

Out[14]:

	htno	name	telugu	english	hindi	maths	science	social	total	grade
0	100	Ramesh	50	60	66	98	66	55	395	SECOND
1	101	Rajesh	45	67	34	67	66	78	357	THIRD
2	102	Rossum	56	88	56	99	44	77	420	FIRST
3	103	Raji	56	78	34	56	88	55	367	SECOND
4	104	Kalyan	51	63	62	93	67	51	387	SECOND
5	105	Karthik	48	62	39	68	65	88	370	SECOND
6	106	Kambli	53	81	59	92	48	73	406	SECOND
7	107	Praveen	46	88	74	86	78	45	417	SECOND
8	108	Ganesh	53	62	76	88	76	35	390	SECOND
9	109	Nags	55	77	44	77	86	58	397	SECOND
10	110	Biswa	66	48	86	95	48	47	390	SECOND
11	111	Ritchi	66	68	64	76	98	75	447	FIRST
12	104	Kalyan	51	63	62	93	67	51	387	SECOND
13	112	shareef	50	63	99	90	76	67	445	FIRST
14	113	sonu	60	89	98	87	77	68	479	DISTINCTION
15	114	Rajesh	45	67	77	55	66	46	356	THIRD
16	115	Rakesh	67	78	88	78	67	49	427	FIRST

```
In [15]: print(df)
```

```
    htno      name  telugu  english  hindi  maths  science  social  total  \
0    100    Ramesh      50       60     66     98       66      55    395
1    101    Rajesh      45       67     34     67       66      78    357
2    102    Rossum      56       88     56     99       44      77    420
3    103      Raji      56       78     34     56       88      55    367
4    104    Kalyan      51       63     62     93       67      51    387
5    105   Karthik      48       62     39     68       65      88    370
6    106    Kambli      53       81     59     92       48      73    406
7    107   Praveen      46       88     74     86       78      45    417
8    108    Ganesh      53       62     76     88       76      35    390
9    109      Nags      55       77     44     77       86      58    397
10   110     Biswa      66       48     86     95       48      47    390
11   111    Ritchi      66       68     64     76       98      75    447
12   104    Kalyan      51       63     62     93       67      51    387
13   112    shareef      50       63     99     90       76      67    445
14   113      sonu      60       89     98     87       77      68    479
15   114    Rajesh      45       67     77     55       66      46    356
16   115    Rakesh      67       78     88     78       67      49    427

    percent        grade
0     65.83       SECOND
1     59.50        THIRD
2     70.00        FIRST
3     61.17       SECOND
4     64.50       SECOND
5     61.67       SECOND
6     67.67       SECOND
7     69.50       SECOND
8     65.00       SECOND
9     66.17       SECOND
10    65.00       SECOND
11    74.50        FIRST
12    64.50       SECOND
13    74.17        FIRST
14    79.83  DISTINCTION
15    59.33        THIRD
16    71.17        FIRST
```

```
In [16]: df1=df.drop(columns="percent")
         print(df1)
```

```
     htno      name  telugu  english  hindi  maths  science  social  total  \
0     100    Ramesh      50       60     66     98       66      55    395
1     101    Rajesh      45       67     34     67       66      78    357
2     102    Rossum      56       88     56     99       44      77    420
3     103      Raji      56       78     34     56       88      55    367
4     104    Kalyan      51       63     62     93       67      51    387
5     105   Karthik      48       62     39     68       65      88    370
6     106    Kambli      53       81     59     92       48      73    406
7     107   Praveen      46       88     74     86       78      45    417
8     108    Ganesh      53       62     76     88       76      35    390
9     109      Nags      55       77     44     77       86      58    397
10    110     Biswa      66       48     86     95       48      47    390
11    111    Ritchi      66       68     64     76       98      75    447
12    104    Kalyan      51       63     62     93       67      51    387
13    112    shareef     50       63     99     90       76      67    445
14    113      sonu      60       89     98     87       77      68    479
15    114    Rajesh      45       67     77     55       66      46    356
16    115    Rakesh      67       78     88     78       67      49    427

          grade
0        SECOND
1         THIRD
2         FIRST
3        SECOND
4        SECOND
5        SECOND
6        SECOND
7        SECOND
8        SECOND
9        SECOND
10       SECOND
11        FIRST
12       SECOND
13        FIRST
14   DISTINCTION
15        THIRD
16        FIRST
```

```
In [17]: print(df)
```

	htno	name	telugu	english	hindi	maths	science	social	total	\
0	100	Ramesh	50	60	66	98	66	55	395	
1	101	Rajesh	45	67	34	67	66	78	357	
2	102	Rossum	56	88	56	99	44	77	420	
3	103	Raji	56	78	34	56	88	55	367	
4	104	Kalyan	51	63	62	93	67	51	387	
5	105	Karthik	48	62	39	68	65	88	370	
6	106	Kambli	53	81	59	92	48	73	406	
7	107	Praveen	46	88	74	86	78	45	417	
8	108	Ganesh	53	62	76	88	76	35	390	
9	109	Nags	55	77	44	77	86	58	397	
10	110	Biswa	66	48	86	95	48	47	390	
11	111	Ritchi	66	68	64	76	98	75	447	
12	104	Kalyan	51	63	62	93	67	51	387	
13	112	shareef	50	63	99	90	76	67	445	
14	113	sonu	60	89	98	87	77	68	479	
15	114	Rajesh	45	67	77	55	66	46	356	
16	115	Rakesh	67	78	88	78	67	49	427	

	percent	grade
0	65.83	SECOND
1	59.50	THIRD
2	70.00	FIRST
3	61.17	SECOND
4	64.50	SECOND
5	61.67	SECOND
6	67.67	SECOND
7	69.50	SECOND
8	65.00	SECOND
9	66.17	SECOND
10	65.00	SECOND
11	74.50	FIRST
12	64.50	SECOND
13	74.17	FIRST
14	79.83	DISTINCTION
15	59.33	THIRD
16	71.17	FIRST

```
In [18]: df.drop(columns="percent",inplace=True)
         print(df)
```

	htno	name	telugu	english	hindi	maths	science	social	total
0	100	Ramesh	50	60	66	98	66	55	395
1	101	Rajesh	45	67	34	67	66	78	357
2	102	Rossum	56	88	56	99	44	77	420
3	103	Raji	56	78	34	56	88	55	367
4	104	Kalyan	51	63	62	93	67	51	387
5	105	Karthik	48	62	39	68	65	88	370
6	106	Kambli	53	81	59	92	48	73	406
7	107	Praveen	46	88	74	86	78	45	417
8	108	Ganesh	53	62	76	88	76	35	390
9	109	Nags	55	77	44	77	86	58	397
10	110	Biswa	66	48	86	95	48	47	390
11	111	Ritchi	66	68	64	76	98	75	447
12	104	Kalyan	51	63	62	93	67	51	387
13	112	shareef	50	63	99	90	76	67	445
14	113	sonu	60	89	98	87	77	68	479
15	114	Rajesh	45	67	77	55	66	46	356
16	115	Rakesh	67	78	88	78	67	49	427

	grade
0	SECOND
1	THIRD
2	FIRST
3	SECOND
4	SECOND
5	SECOND
6	SECOND
7	SECOND
8	SECOND
9	SECOND
10	SECOND
11	FIRST
12	SECOND
13	FIRST
14	DISTINCTION
15	THIRD
16	FIRST

```
In [20]: df1=df.drop(columns=df.columns[3])
```

```
In [21]: print(df1)
```

	htno	name	telugu	hindi	maths	science	social	total	grade
0	100	Ramesh	50	66	98	66	55	395	SECOND
1	101	Rajesh	45	34	67	66	78	357	THIRD
2	102	Rossum	56	56	99	44	77	420	FIRST
3	103	Raji	56	34	56	88	55	367	SECOND
4	104	Kalyan	51	62	93	67	51	387	SECOND
5	105	Karthik	48	39	68	65	88	370	SECOND
6	106	Kambli	53	59	92	48	73	406	SECOND
7	107	Praveen	46	74	86	78	45	417	SECOND
8	108	Ganesh	53	76	88	76	35	390	SECOND
9	109	Nags	55	44	77	86	58	397	SECOND
10	110	Biswa	66	86	95	48	47	390	SECOND
11	111	Ritchi	66	64	76	98	75	447	FIRST
12	104	Kalyan	51	62	93	67	51	387	SECOND
13	112	shareef	50	99	90	76	67	445	FIRST
14	113	sonu	60	98	87	77	68	479	DISTINCTION
15	114	Rajesh	45	77	55	66	46	356	THIRD
16	115	Rakesh	67	88	78	67	49	427	FIRST

```
In [22]: print(df)
```

```
        htno       name   telugu   english   hindi   maths   science   social   total   \
0        100     Ramesh       50        60      66      98        66       55     395
1        101     Rajesh       45        67      34      67        66       78     357
2        102     Rossum       56        88      56      99        44       77     420
3        103       Raji       56        78      34      56        88       55     367
4        104     Kalyan       51        63      62      93        67       51     387
5        105    Karthik       48        62      39      68        65       88     370
6        106     Kambli       53        81      59      92        48       73     406
7        107    Praveen       46        88      74      86        78       45     417
8        108     Ganesh       53        62      76      88        76       35     390
9        109       Nags       55        77      44      77        86       58     397
10       110      Biswa       66        48      86      95        48       47     390
11       111     Ritchi       66        68      64      76        98       75     447
12       104     Kalyan       51        63      62      93        67       51     387
13       112     shareef       50       63      99      90        76       67     445
14       113       sonu       60        89      98      87        77       68     479
15       114     Rajesh       45        67      77      55        66       46     356
16       115     Rakesh       67        78      88      78        67       49     427

            grade
0          SECOND
1           THIRD
2           FIRST
3          SECOND
4          SECOND
5          SECOND
6          SECOND
7          SECOND
8          SECOND
9          SECOND
10         SECOND
11          FIRST
12         SECOND
13          FIRST
14    DISTINCTION
15          THIRD
16          FIRST
```

```
In [27]: df1=df.drop(columns=df.columns[8])
```

```
In [28]: print(df1)
```

	htno	name	telugu	english	hindi	maths	science	social	grade
0	100	Ramesh	50	60	66	98	66	55	SECOND
1	101	Rajesh	45	67	34	67	66	78	THIRD
2	102	Rossum	56	88	56	99	44	77	FIRST
3	103	Raji	56	78	34	56	88	55	SECOND
4	104	Kalyan	51	63	62	93	67	51	SECOND
5	105	Karthik	48	62	39	68	65	88	SECOND
6	106	Kambli	53	81	59	92	48	73	SECOND
7	107	Praveen	46	88	74	86	78	45	SECOND
8	108	Ganesh	53	62	76	88	76	35	SECOND
9	109	Nags	55	77	44	77	86	58	SECOND
10	110	Biswa	66	48	86	95	48	47	SECOND
11	111	Ritchi	66	68	64	76	98	75	FIRST
12	104	Kalyan	51	63	62	93	67	51	SECOND
13	112	shareef	50	63	99	90	76	67	FIRST
14	113	sonu	60	89	98	87	77	68	DISTINCTION
15	114	Rajesh	45	67	77	55	66	46	THIRD
16	115	Rakesh	67	78	88	78	67	49	FIRST

```
In [29]: print(df)
```

	htno	name	telugu	english	hindi	maths	science	social	total \
0	100	Ramesh	50	60	66	98	66	55	395
1	101	Rajesh	45	67	34	67	66	78	357
2	102	Rossum	56	88	56	99	44	77	420
3	103	Raji	56	78	34	56	88	55	367
4	104	Kalyan	51	63	62	93	67	51	387
5	105	Karthik	48	62	39	68	65	88	370
6	106	Kambli	53	81	59	92	48	73	406
7	107	Praveen	46	88	74	86	78	45	417
8	108	Ganesh	53	62	76	88	76	35	390
9	109	Nags	55	77	44	77	86	58	397
10	110	Biswa	66	48	86	95	48	47	390
11	111	Ritchi	66	68	64	76	98	75	447
12	104	Kalyan	51	63	62	93	67	51	387
13	112	shareef	50	63	99	90	76	67	445
14	113	sonu	60	89	98	87	77	68	479
15	114	Rajesh	45	67	77	55	66	46	356
16	115	Rakesh	67	78	88	78	67	49	427

	grade
0	SECOND
1	THIRD
2	FIRST
3	SECOND
4	SECOND
5	SECOND
6	SECOND
7	SECOND
8	SECOND
9	SECOND
10	SECOND
11	FIRST
12	SECOND
13	FIRST
14	DISTINCTION
15	THIRD
16	FIRST

```
In [30]: df.duplicated()  # To know the duplicate entries in DataFrame object
```

```
Out[30]: 0      False
         1      False
         2      False
         3      False
         4      False
         5      False
         6      False
         7      False
         8      False
         9      False
         10     False
         11     False
         12      True
         13     False
         14     False
         15     False
         16     False
         dtype: bool
```

```
In [31]: df.drop_duplicates()   #Removing the duplicate entries
```

Out[31]:

	htno	name	telugu	english	hindi	maths	science	social	total	grade
0	100	Ramesh	50	60	66	98	66	55	395	SECOND
1	101	Rajesh	45	67	34	67	66	78	357	THIRD
2	102	Rossum	56	88	56	99	44	77	420	FIRST
3	103	Raji	56	78	34	56	88	55	367	SECOND
4	104	Kalyan	51	63	62	93	67	51	387	SECOND
5	105	Karthik	48	62	39	68	65	88	370	SECOND
6	106	Kambli	53	81	59	92	48	73	406	SECOND
7	107	Praveen	46	88	74	86	78	45	417	SECOND
8	108	Ganesh	53	62	76	88	76	35	390	SECOND
9	109	Nags	55	77	44	77	86	58	397	SECOND
10	110	Biswa	66	48	86	95	48	47	390	SECOND
11	111	Ritchi	66	68	64	76	98	75	447	FIRST
13	112	shareef	50	63	99	90	76	67	445	FIRST
14	113	sonu	60	89	98	87	77	68	479	DISTINCTION
15	114	Rajesh	45	67	77	55	66	46	356	THIRD
16	115	Rakesh	67	78	88	78	67	49	427	FIRST

```
In [32]: print(df)
```

```
       htno      name  telugu  english  hindi  maths  science  social  total  \
0      100    Ramesh      50       60     66     98       66      55    395
1      101    Rajesh      45       67     34     67       66      78    357
2      102    Rossum      56       88     56     99       44      77    420
3      103      Raji      56       78     34     56       88      55    367
4      104    Kalyan      51       63     62     93       67      51    387
5      105   Karthik      48       62     39     68       65      88    370
6      106    Kambli      53       81     59     92       48      73    406
7      107   Praveen      46       88     74     86       78      45    417
8      108    Ganesh      53       62     76     88       76      35    390
9      109      Nags      55       77     44     77       86      58    397
10     110     Biswa      66       48     86     95       48      47    390
11     111    Ritchi      66       68     64     76       98      75    447
12     104    Kalyan      51       63     62     93       67      51    387
13     112    shareef      50      63     99     90       76      67    445
14     113      sonu      60       89     98     87       77      68    479
15     114    Rajesh      45       67     77     55       66      46    356
16     115    Rakesh      67       78     88     78       67      49    427

           grade
0         SECOND
1          THIRD
2          FIRST
3         SECOND
4         SECOND
5         SECOND
6         SECOND
7         SECOND
8         SECOND
9         SECOND
10        SECOND
11         FIRST
12        SECOND
13         FIRST
14   DISTINCTION
15         THIRD
16         FIRST
```

```
In [33]: df.drop_duplicates(inplace=True)
         print(df)
```

```
     htno     name  telugu  english  hindi  maths  science  social  total  \
0     100    Ramesh      50       60     66     98       66      55    395
1     101    Rajesh      45       67     34     67       66      78    357
2     102    Rossum      56       88     56     99       44      77    420
3     103      Raji      56       78     34     56       88      55    367
4     104    Kalyan      51       63     62     93       67      51    387
5     105    Karthik     48       62     39     68       65      88    370
6     106    Kambli      53       81     59     92       48      73    406
7     107    Praveen     46       88     74     86       78      45    417
8     108    Ganesh      53       62     76     88       76      35    390
9     109      Nags      55       77     44     77       86      58    397
10    110     Biswa      66       48     86     95       48      47    390
11    111    Ritchi      66       68     64     76       98      75    447
13    112    shareef     50       63     99     90       76      67    445
14    113      sonu      60       89     98     87       77      68    479
15    114    Rajesh      45       67     77     55       66      46    356
16    115    Rakesh      67       78     88     78       67      49    427

          grade
0        SECOND
1         THIRD
2         FIRST
3        SECOND
4        SECOND
5        SECOND
6        SECOND
7        SECOND
8        SECOND
9        SECOND
10       SECOND
11        FIRST
13        FIRST
14   DISTINCTION
15        THIRD
16        FIRST
```

```
In [34]: df.drop(labels=1,axis=0)
```

Out[34]:

	htno	name	telugu	english	hindi	maths	science	social	total	grade
0	100	Ramesh	50	60	66	98	66	55	395	SECOND
2	102	Rossum	56	88	56	99	44	77	420	FIRST
3	103	Raji	56	78	34	56	88	55	367	SECOND
4	104	Kalyan	51	63	62	93	67	51	387	SECOND
5	105	Karthik	48	62	39	68	65	88	370	SECOND
6	106	Kambli	53	81	59	92	48	73	406	SECOND
7	107	Praveen	46	88	74	86	78	45	417	SECOND
8	108	Ganesh	53	62	76	88	76	35	390	SECOND
9	109	Nags	55	77	44	77	86	58	397	SECOND
10	110	Biswa	66	48	86	95	48	47	390	SECOND
11	111	Ritchi	66	68	64	76	98	75	447	FIRST
13	112	shareef	50	63	99	90	76	67	445	FIRST
14	113	sonu	60	89	98	87	77	68	479	DISTINCTION
15	114	Rajesh	45	67	77	55	66	46	356	THIRD
16	115	Rakesh	67	78	88	78	67	49	427	FIRST

```
In [35]: print(df)
```

	htno	name	telugu	english	hindi	maths	science	social	total	\
0	100	Ramesh	50	60	66	98	66	55	395	
1	101	Rajesh	45	67	34	67	66	78	357	
2	102	Rossum	56	88	56	99	44	77	420	
3	103	Raji	56	78	34	56	88	55	367	
4	104	Kalyan	51	63	62	93	67	51	387	
5	105	Karthik	48	62	39	68	65	88	370	
6	106	Kambli	53	81	59	92	48	73	406	
7	107	Praveen	46	88	74	86	78	45	417	
8	108	Ganesh	53	62	76	88	76	35	390	
9	109	Nags	55	77	44	77	86	58	397	
10	110	Biswa	66	48	86	95	48	47	390	
11	111	Ritchi	66	68	64	76	98	75	447	
13	112	shareef	50	63	99	90	76	67	445	
14	113	sonu	60	89	98	87	77	68	479	
15	114	Rajesh	45	67	77	55	66	46	356	
16	115	Rakesh	67	78	88	78	67	49	427	

	grade
0	SECOND
1	THIRD
2	FIRST
3	SECOND
4	SECOND
5	SECOND
6	SECOND
7	SECOND
8	SECOND
9	SECOND
10	SECOND
11	FIRST
13	FIRST
14	DISTINCTION
15	THIRD
16	FIRST

```
In [36]: df=df.drop(labels=1,axis=0)
         print(df)
```

```
     htno      name  telugu  english  hindi  maths  science  social  total  \
0     100    Ramesh      50       60     66     98       66      55    395
2     102    Rossum      56       88     56     99       44      77    420
3     103      Raji      56       78     34     56       88      55    367
4     104    Kalyan      51       63     62     93       67      51    387
5     105   Karthik      48       62     39     68       65      88    370
6     106    Kambli      53       81     59     92       48      73    406
7     107   Praveen      46       88     74     86       78      45    417
8     108    Ganesh      53       62     76     88       76      35    390
9     109      Nags      55       77     44     77       86      58    397
10    110     Biswa      66       48     86     95       48      47    390
11    111    Ritchi      66       68     64     76       98      75    447
13    112    shareef     50       63     99     90       76      67    445
14    113      sonu      60       89     98     87       77      68    479
15    114    Rajesh      45       67     77     55       66      46    356
16    115    Rakesh      67       78     88     78       67      49    427

          grade
0        SECOND
2         FIRST
3        SECOND
4        SECOND
5        SECOND
6        SECOND
7        SECOND
8        SECOND
9        SECOND
10       SECOND
11        FIRST
13        FIRST
14   DISTINCTION
15        THIRD
16        FIRST
```

```
In [38]: df=df.drop(labels=4,axis=0)
         print(df)
```

	htno	name	telugu	english	hindi	maths	science	social	total	\
0	100	Ramesh	50	60	66	98	66	55	395	
2	102	Rossum	56	88	56	99	44	77	420	
3	103	Raji	56	78	34	56	88	55	367	
5	105	Karthik	48	62	39	68	65	88	370	
6	106	Kambli	53	81	59	92	48	73	406	
7	107	Praveen	46	88	74	86	78	45	417	
8	108	Ganesh	53	62	76	88	76	35	390	
9	109	Nags	55	77	44	77	86	58	397	
10	110	Biswa	66	48	86	95	48	47	390	
11	111	Ritchi	66	68	64	76	98	75	447	
13	112	shareef	50	63	99	90	76	67	445	
14	113	sonu	60	89	98	87	77	68	479	
15	114	Rajesh	45	67	77	55	66	46	356	
16	115	Rakesh	67	78	88	78	67	49	427	

	grade
0	SECOND
2	FIRST
3	SECOND
5	SECOND
6	SECOND
7	SECOND
8	SECOND
9	SECOND
10	SECOND
11	FIRST
13	FIRST
14	DISTINCTION
15	THIRD
16	FIRST

```
In [39]: df=df.drop(labels=[2,5,7],axis=0)
         print(df)
```

```
     htno     name  telugu  english  hindi  maths  science  social  total  \
0     100   Ramesh      50       60     66     98       66      55    395
3     103     Raji      56       78     34     56       88      55    367
6     106   Kambli      53       81     59     92       48      73    406
8     108   Ganesh      53       62     76     88       76      35    390
9     109     Nags      55       77     44     77       86      58    397
10    110    Biswa      66       48     86     95       48      47    390
11    111   Ritchi      66       68     64     76       98      75    447
13    112   shareef     50       63     99     90       76      67    445
14    113     sonu      60       89     98     87       77      68    479
15    114   Rajesh      45       67     77     55       66      46    356
16    115   Rakesh      67       78     88     78       67      49    427

          grade
0        SECOND
3        SECOND
6        SECOND
8        SECOND
9        SECOND
10       SECOND
11        FIRST
13        FIRST
14  DISTINCTION
15        THIRD
16        FIRST
```

In [ ]: