In [1]: import pandas as pd
 import matplotlib.pyplot as plt
 import numpy as np

In [2]: data = pd.read_excel('sahra.xlsx', index_col='index')

In [3]: data

In [4]: data.index.value_counts().sum()

Out[4]: 36

In [5]: data.Gender.value_counts()

```
Out[5]: Gender
Male 23
Female 13
Name: count, dtype: int64

In [6]: plt.pie(data.Gender.value_counts(), labels=['Male', 'Female'], startangle = 240, autopct='%1.2f%%')
plt.show()

Female 36.11% 63.89% Male
```

```
In [7]: data.info()
       <class 'pandas.core.frame.DataFrame'>
       Index: 36 entries, 2442 to 2891
       Data columns (total 15 columns):
           Column
                           Non-Null Count Dtype
                           -----
        0
                           36 non-null
                                           object
           name
                                           object
        1 Gender
                          36 non-null
                          36 non-null
        2 islam
                                           int64
        3 tamil
                          36 non-null
                                          int64
        4 english
                           36 non-null
                                          int64
        5
           science
                           36 non-null
                                          int64
        6
           maths
                           36 non-null
                                          int64
                                        int64
        7
           history
                           36 non-null
        8 civics
                           36 non-null
                                        int64
        9 geog
                           36 non-null
                                        int64
        10 tamlit/art/arab 36 non-null
                                          int64
                           36 non-null
                                          int64
        11 pts
                           36 non-null
                                          int64
        12 sinhala
                                           int64
        13 helth
                           36 non-null
        14 ict
                           36 non-null
                                           int64
       dtypes: int64(13), object(2)
       memory usage: 4.5+ KB
In [8]: numric_colo = []
        for col in data.columns:
            if data[col].dtype!=object:
                numric_colo.append(col)
        print(numric_colo)
       ['islam', 'tamil', 'english', 'science', 'maths', 'history', 'civics', 'geog', 'tamlit/art/arab', 'pts', 'sinhala', 'helth', 'i
In [9]: sum_col = data.loc[:, numric_colo].sum(axis = 1)
In [10]: | data.loc[:, numric_colo].mean(axis = 1)
```

```
Out[10]: index
                 77.692308
         2442
         2443
                 42.692308
                 68.538462
         2444
         2445
                 38.846154
                 77.615385
         2448
         2449
                 49.538462
                 35.846154
         2450
         2452
                 22.846154
         2454
                 35.615385
         2459
                 31.923077
         2464
                 46.461538
         2465
                 30.000000
                 45.230769
         2506
         2616
                 44.692308
         2930
                 33.923077
         2674
                 62.923077
         2675
                 59.384615
         2676
                 33.461538
         2678
                 29.461538
         2679
                 39.769231
         2681
                 43.538462
         2682
                 30.076923
         2683
                 52.153846
         2467
                 59.692308
         2471
                 38.769231
         2472
                 36.000000
         2475
                 54.153846
         2476
                 56.769231
                 83.615385
         2477
         2478
                 58.461538
         2557
                 78.153846
         2621
                 29.538462
         2686
                 48.769231
         2688
                 33.538462
         2726
                 37.307692
         2891
                 69.692308
         dtype: float64
In [11]: data['avg'] = data.loc[:, numric_colo].mean(axis = 1)
         data
```

Out[11]:

	name	Gender	islam	tamil	english	science	maths	history	civics	geog	tamlit/art/arab	pts	sinhala	helth	ict	
index																
2442	MM.Rifath	Male	86	80	70	80	84	79	78	85	82	82	50	66	88	77.69
2443	MI.Ihthisam	Male	48	47	33	46	39	35	44	40	26	53	44	58	42	42.69
2444	MB.IIthifath	Male	92	74	58	67	53	72	81	84	52	78	46	59	75	68.53
2445	KM.Haseef	Male	53	45	32	27	20	49	33	42	43	44	32	45	40	38.84
2448	MN.Abdullah	Male	88	79	83	85	76	80	75	91	76	80	45	64	87	77.6°
2449	MN.Hayas	Male	59	50	49	40	46	68	57	49	47	41	22	56	60	49.53
2450	MM.Siraf	Male	61	52	40	40	21	29	26	36	45	25	20	50	21	35.84
2452	MA.Ashrif	Male	29	10	25	26	9	19	14	27	24	19	20	42	33	22.84
2454	M.Fahath	Male	44	49	47	31	14	35	24	38	33	39	30	48	31	35.6°
2459	MR.Hasan	Male	57	37	34	32	16	22	21	24	31	35	34	46	26	31.92
2464	A.Ahnan	Male	57	55	65	37	51	33	43	44	50	38	26	59	46	46.46
2465	R.Sahdhi	Male	40	40	24	30	11	19	25	35	40	42	22	47	15	30.00
2506	MF.Nafly	Male	36	53	62	47	45	48	42	44	37	43	34	51	46	45.23
2616	S.Abdurrahman	Male	49	50	45	44	42	39	43	31	69	41	37	53	38	44.69
2930	T.Hasif	Male	45	46	43	34	15	28	33	27	33	35	36	50	16	33.92
2674	MNM.Rislan	Male	71	73	62	67	48	65	68	72	62	65	44	66	55	62.92
2675	A.sharaf	Male	85	68	60	62	55	57	46	79	51	57	40	52	60	59.38
2676	R.Izzath	Male	41	30	41	26	20	40	26	33	36	29	40	48	25	33.46
2678	FA.Satheem	Male	37	23	29	26	10	30	18	26	38	29	36	48	33	29.46
2679	MF.Musnif	Male	39	53	56	49	27	35	30	35	35	50	32	49	27	39.76
2681	R.Rimas	Male	50	60	50	45	35	30	34	48	37	45	34	48	50	43.53
2682	AMN.Afrith	Male	45	28	36	29	10	32	25	14	32	38	36	41	25	30.07
2683	U.Mansaf	Male	56	59	50	58	58	57	42	55	58	50	36	54	45	52.1!
2467	M.Muhainaf Iffath	Female	84	58	67	60	53	67	69	73	48	42	38	64	53	59.69
2471	J.Zainab saja	Female	54	37	47	45	39	33	42	39	42	30	22	37	37	38.76
2472	RF.Hana	Female	60	52	39	27	9	35	32	30	50	48	22	48	16	36.00
2475	AF.Hilma	Female	80	57	52	46	49	49	52	54	64	62	34	51	54	54.1!
2476	R.Hanzul	Female	75	75	67	46	23	43	60	76	61	44	49	50	69	56.76
2477	M.Shahadha farwin	Female	85	89	70	93	85	82	83	86	80	90	82	72	90	83.6
2478	AF.Sumaiya	Female	74	71	76	49	55	41	58	75	50	74	39	56	42	58.46
2557	MRF.Sahama	Female	80	75	84	83	73	88	87	73	68	95	47	65	98	78.1!
2621	MRF.Reema	Female	36	27	50	25	10	24	14	32	44	28	26	50	18	29.53
2686	MF.Zahra	Female	64	55	65	51	24	35	55	65	52	42	46	54	26	48.76
2688	IF.Riha	Female	36	51	38	24	14	37	17	41	44	36	34	37	27	33.53
2726	R.Zeenath Imthaj	Female	60	48	59	25	11	42	24	26	54	44	28	45	19	37.30
2891	NF.Reefa	Female	78	76	78	71	69	70	73	88	60	81	41	57	64	69.69
														_		

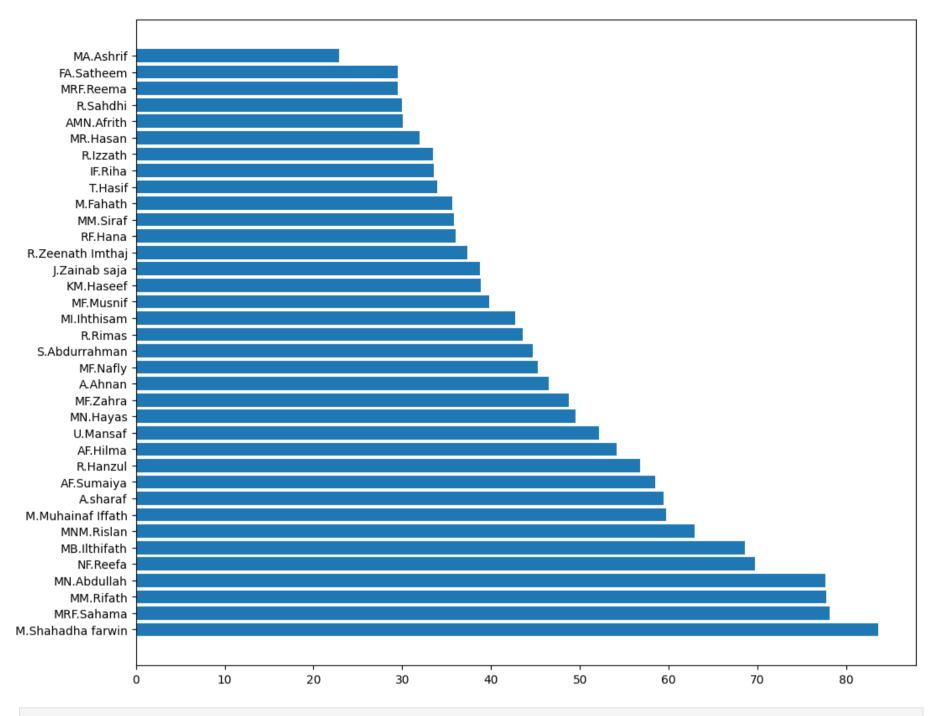
In [13]: data = data.sort_values(by='avg',ascending=False)
 data

Out[13]:

					3			,								
index																
2477	M.Shahadha farwin	Female	85	89	70	93	85	82	83	86	80	90	82	72	90	83.6
2557	MRF.Sahama	Female	80	75	84	83	73	88	87	73	68	95	47	65	98	78.1!
2442	MM.Rifath	Male	86	80	70	80	84	79	78	85	82	82	50	66	88	77.69
2448	MN.Abdullah	Male	88	79	83	85	76	80	75	91	76	80	45	64	87	77.6
2891	NF.Reefa	Female	78	76	78	71	69	70	73	88	60	81	41	57	64	69.69
2444	MB.IIthifath	Male	92	74	58	67	53	72	81	84	52	78	46	59	75	68.53
2674	MNM.Rislan	Male	71	73	62	67	48	65	68	72	62	65	44	66	55	62.97
2467	M.Muhainaf Iffath	Female	84	58	67	60	53	67	69	73	48	42	38	64	53	59.69
2675	A.sharaf	Male	85	68	60	62	55	57	46	79	51	57	40	52	60	59.38
2478	AF.Sumaiya	Female	74	71	76	49	55	41	58	75	50	74	39	56	42	58.46
2476	R.Hanzul	Female	75	75	67	46	23	43	60	76	61	44	49	50	69	56.76
2475	AF.Hilma	Female	80	57	52	46	49	49	52	54	64	62	34	51	54	54.1!
2683	U.Mansaf	Male	56	59	50	58	58	57	42	55	58	50	36	54	45	52.1!
2449	MN.Hayas	Male	59	50	49	40	46	68	57	49	47	41	22	56	60	49.53
2686	MF.Zahra	Female	64	55	65	51	24	35	55	65	52	42	46	54	26	48.76
2464	A.Ahnan	Male	57	55	65	37	51	33	43	44	50	38	26	59	46	46.46
2506	MF.Nafly	Male	36	53	62	47	45	48	42	44	37	43	34	51	46	45.23
2616	S.Abdurrahman	Male	49	50	45	44	42	39	43	31	69	41	37	53	38	44.69
2681	R.Rimas	Male	50	60	50	45	35	30	34	48	37	45	34	48	50	43.53
2443	MI.Ihthisam	Male	48	47	33	46	39	35	44	40	26	53	44	58	42	42.69
2679	MF.Musnif	Male	39	53	56	49	27	35	30	35	35	50	32	49	27	39.76
2445	KM.Haseef	Male	53	45	32	27	20	49	33	42	43	44	32	45	40	38.84
2471	J.Zainab saja	Female	54	37	47	45	39	33	42	39	42	30	22	37	37	38.76
2726	R.Zeenath Imthaj	Female	60	48	59	25	11	42	24	26	54	44	28	45	19	37.30
2472	RF.Hana	Female	60	52	39	27	9	35	32	30	50	48	22	48	16	36.00
2450	MM.Siraf	Male	61	52	40	40	21	29	26	36	45	25	20	50	21	35.84
2454	M.Fahath	Male	44	49	47	31	14	35	24	38	33	39	30	48	31	35.6°
2930	T.Hasif	Male	45	46	43	34	15	28	33	27	33	35	36	50	16	33.92
2688	IF.Riha	Female	36	51	38	24	14	37	17	41	44	36	34	37	27	33.53
2676	R.Izzath	Male	41	30	41	26	20	40	26	33	36	29	40	48	25	33.46
2459	MR.Hasan	Male	57	37	34	32	16	22	21	24	31	35	34	46	26	31.92
2682	AMN.Afrith	Male	45	28	36	29	10	32	25	14	32	38	36	41	25	30.07
2465	R.Sahdhi	Male	40	40	24	30	11	19	25	35	40	42	22	47	15	30.00
2621	MRF.Reema	Female	36	27	50	25	10	24	14	32	44	28	26	50	18	29.53
2678	FA.Satheem	Male	37	23	29	26	10	30	18	26	38	29	36	48	33	29.46
2452	MA.Ashrif	Male	29	10	25	26	9	19	14	27	24	19	20	42	33	22.84

name Gender islam tamil english science maths history civics geog tamlit/art/arab pts sinhala helth ict

In [14]: plt.figure(figsize=(12,10))
 plt.barh('name', 'avg', data=data)
 plt.show()



```
In [15]: data.islam.max()
```

Out[15]: **92**

```
In [16]: for col in numric_colo:
    print(col)
    for x in ((data[data[col] > 75 ].sort_values(by='avg',ascending=False)).index):
        print(data._get_value(x, col='name'), ":", data._get_value(x, col=col))
    print(" ")
```

```
MRF.Sahama: 80
       MM.Rifath: 86
       MN.Abdullah : 88
       NF.Reefa: 78
       MB.Ilthifath: 92
       M.Muhainaf Iffath: 84
       A.sharaf: 85
       AF.Hilma: 80
       tamil
       M.Shahadha farwin : 89
       MM.Rifath: 80
       MN.Abdullah : 79
       NF.Reefa: 76
       english
       MRF.Sahama: 84
       MN.Abdullah : 83
       NF.Reefa: 78
       AF.Sumaiya : 76
       science
       M.Shahadha farwin : 93
       MRF.Sahama: 83
       MM.Rifath: 80
       MN.Abdullah : 85
       maths
       M.Shahadha farwin : 85
       MM.Rifath: 84
       MN.Abdullah : 76
       history
       M.Shahadha farwin : 82
       MRF.Sahama: 88
       MM.Rifath: 79
       MN.Abdullah : 80
       civics
       M.Shahadha farwin : 83
       MRF.Sahama: 87
       MM.Rifath: 78
       MB.Ilthifath: 81
       geog
       M.Shahadha farwin : 86
       MM.Rifath: 85
       MN.Abdullah : 91
       NF.Reefa: 88
       MB.Ilthifath: 84
       A.sharaf : 79
       R.Hanzul : 76
       tamlit/art/arab
       M.Shahadha farwin : 80
       MM.Rifath: 82
       MN.Abdullah : 76
       pts
       M.Shahadha farwin : 90
       MRF.Sahama: 95
       MM.Rifath: 82
       MN.Abdullah : 80
       NF.Reefa: 81
       MB.Ilthifath: 78
       sinhala
       M.Shahadha farwin : 82
       helth
       ict
       M.Shahadha farwin : 90
       MRF.Sahama: 98
       MM.Rifath: 88
       MN.Abdullah : 87
In [17]: subject_avg = data.loc[:, numric_colo].mean(axis = 0).sort_values()
         print(subject_avg.index, subject_avg.values)
```

islam

M.Shahadha farwin : 85

```
In [18]: plt.barh(subject_avg.index, subject_avg.values)
    plt.show()
```

```
islam
         tamil
         helth
        english
          geog
           pts
tamlit/art/arab
       science
        history
            ict
         civics
        maths
        sinhala
               0
                          10
                                      20
                                                 30
                                                             40
                                                                         50
                                                                                    60
```

```
In [19]: for col in numric_colo:
             x = data[col].idxmax()
             print(f"{col.upper()} = {data._get_value(x, col='name')} : {data[col].max()}")
       ISLAM = MB.Ilthifath : 92
       TAMIL = M.Shahadha farwin : 89
       ENGLISH = MRF.Sahama : 84
       SCIENCE = M.Shahadha farwin : 93
       MATHS = M.Shahadha farwin : 85
       HISTORY = MRF.Sahama : 88
       CIVICS = MRF.Sahama : 87
       GEOG = MN.Abdullah : 91
       TAMLIT/ART/ARAB = MM.Rifath : 82
       PTS = MRF.Sahama : 95
       SINHALA = M.Shahadha farwin : 82
       HELTH = M.Shahadha farwin : 72
       ICT = MRF.Sahama : 98
In [20]: data.style.highlight_max(color = 'lightgreen', axis = 0)
```

Out[20]:

	name	Gender	islam	tamil	english	science	maths	history	civics	geog	tamlit/art/arab	pts	sinhala	helth	ict	
inde	x															
247	M.Shahadha farwin	Female	85	89	70	93	85	82	83	86	80	90	82	72	90	83.6
255	7 MRF.Sahama	Female	80	75	84	83	73	88	87	73	68	95	47	65	98	78.1!
244	2 MM.Rifath	Male	86	80	70	80	84	79	78	85	82	82	50	66	88	77.69
244	MN.Abdullah	Male	88	79	83	85	76	80	75	91	76	80	45	64	87	77.6
289	NF.Reefa	Female	78	76	78	71	69	70	73	88	60	81	41	57	64	69.69
244	MB.IIthifath	Male	92	74	58	67	53	72	81	84	52	78	46	59	75	68.53
267	4 MNM.Rislan	Male	71	73	62	67	48	65	68	72	62	65	44	66	55	62.92
246	M.Muhainaf Iffath	Female	84	58	67	60	53	67	69	73	48	42	38	64	53	59.69
267	5 A.sharaf	Male	85	68	60	62	55	57	46	79	51	57	40	52	60	59.38
247	3 AF.Sumaiya	Female	74	71	76	49	55	41	58	75	50	74	39	56	42	58.46
247	R.Hanzul	Female	75	75	67	46	23	43	60	76	61	44	49	50	69	56.76
247	AF.Hilma	Female	80	57	52	46	49	49	52	54	64	62	34	51	54	54.1!
268	U.Mansaf	Male	56	59	50	58	58	57	42	55	58	50	36	54	45	52.1!
244	MN.Hayas	Male	59	50	49	40	46	68	57	49	47	41	22	56	60	49.53
268	MF.Zahra	Female	64	55	65	51	24	35	55	65	52	42	46	54	26	48.76
246	4 A.Ahnan	Male	57	55	65	37	51	33	43	44	50	38	26	59	46	46.40
250	MF.Nafly	Male	36	53	62	47	45	48	42	44	37	43	34	51	46	45.23
261	5 S.Abdurrahman	Male	49	50	45	44	42	39	43	31	69	41	37	53	38	44.69
268	1 R.Rimas	Male	50	60	50	45	35	30	34	48	37	45	34	48	50	43.53
244	MI.Ihthisam	Male	48	47	33	46	39	35	44	40	26	53	44	58	42	42.69
267	MF.Musnif	Male	39	53	56	49	27	35	30	35	35	50	32	49	27	39.76
244	KM.Haseef	Male	53	45	32	27	20	49	33	42	43	44	32	45	40	38.84
247	1 J.Zainab saja	Female	54	37	47	45	39	33	42	39	42	30	22	37	37	38.70
272	R.Zeenath Imthaj	Female	60	48	59	25	11	42	24	26	54	44	28	45	19	37.30
247	RF.Hana	Female	60	52	39	27	9	35	32	30	50	48	22	48	16	36.00
245	MM.Siraf	Male	61	52	40	40	21	29	26	36	45	25	20	50	21	35.84
245	M.Fahath	Male	44	49	47	31	14	35	24	38	33	39	30	48	31	35.6°
293	T.Hasif	Male	45	46	43	34	15	28	33	27	33	35	36	50	16	33.92
268	3 IF.Riha	Female	36	51	38	24	14	37	17	41	44	36	34	37	27	33.53
267	R.Izzath	Male	41	30	41	26	20	40	26	33	36	29	40	48	25	33.40
245	MR.Hasan	Male	57	37	34	32	16	22	21	24	31	35	34	46	26	31.97
268	2 AMN.Afrith	Male	45	28	36	29	10	32	25	14	32	38	36	41	25	30.07
246	R.Sahdhi	Male	40	40	24	30	11	19	25	35	40	42	22	47	15	30.00
262	MRF.Reema	Female	36	27	50	25	10	24	14	32	44	28	26	50	18	29.53

42 33 22.84

20

In [21]: data = data.sort_values(by='avg', ascending=False)
data

Male

10

25

27

MA.Ashrif

2452

4

index					_											
2477	M.Shahadha	Female	85	89	70	93	85	82	83	86	80	90	82	72	90	83.6
2557	farwin MRF.Sahama			75		83	73		87	73	68	95				78.1!
		Female	80		84			88					47	65	98	
2442	MM.Rifath	Male	86	80	70	80	84	79	78	85	82	82	50	66	88	77.69
2448	MN.Abdullah	Male	88	79	83	85	76	80	75	91	76	80	45	64		77.6
2891	NF.Reefa	Female	78	76	78	71	69	70	73	88	60	81	41	57	64	69.69
2444	MB.IIthifath	Male	92	74	58	67	53	72	81	84	52	78	46	59	75	68.53
2674	MNM.Rislan	Male	71	73	62	67	48	65	68	72	62	65	44	66	55	62.92
2467	M.Muhainaf lffath	Female	84	58	67	60	53	67	69	73	48	42	38	64	53	59.69
2675	A.sharaf	Male	85	68	60	62	55	57	46	79	51	57	40	52	60	59.38
2478	AF.Sumaiya	Female	74	71	76	49	55	41	58	75	50	74	39	56	42	58.46
2476	R.Hanzul	Female	75	75	67	46	23	43	60	76	61	44	49	50	69	56.76
2475	AF.Hilma	Female	80	57	52	46	49	49	52	54	64	62	34	51	54	54.1!
2683	U.Mansaf	Male	56	59	50	58	58	57	42	55	58	50	36	54	45	52.1!
2449	MN.Hayas	Male	59	50	49	40	46	68	57	49	47	41	22	56	60	49.53
2686	MF.Zahra	Female	64	55	65	51	24	35	55	65	52	42	46	54	26	48.76
2464	A.Ahnan	Male	57	55	65	37	51	33	43	44	50	38	26	59	46	46.46
2506	MF.Nafly	Male	36	53	62	47	45	48	42	44	37	43	34	51	46	45.23
2616	S.Abdurrahman	Male	49	50	45	44	42	39	43	31	69	41	37	53	38	44.69
2681	R.Rimas	Male	50	60	50	45	35	30	34	48	37	45	34	48	50	43.53
2443	MI.Ihthisam	Male	48	47	33	46	39	35	44	40	26	53	44	58	42	42.69
2679	MF.Musnif	Male	39	53	56	49	27	35	30	35	35	50	32	49	27	39.76
2445	KM.Haseef	Male	53	45	32	27	20	49	33	42	43	44	32	45	40	38.84
2471	J.Zainab saja	Female	54	37	47	45	39	33	42	39	42	30	22	37	37	38.76
2726	R.Zeenath Imthaj	Female	60	48	59	25	11	42	24	26	54	44	28	45	19	37.30
2472	RF.Hana	Female	60	52	39	27	9	35	32	30	50	48	22	48	16	36.00
2450	MM.Siraf	Male	61	52	40	40	21	29	26	36	45	25	20	50	21	35.84
2454	M.Fahath	Male	44	49	47	31	14	35	24	38	33	39	30	48	31	35.6°
2930	T.Hasif	Male	45	46	43	34	15	28	33	27	33	35	36	50	16	33.92
2688	IF.Riha	Female	36	51	38	24	14	37	17	41	44	36	34	37	27	33.53
2676	R.Izzath	Male	41	30	41	26	20	40	26	33	36	29	40	48	25	33.46
2459	MR.Hasan	Male	57	37	34	32	16	22	21	24	31	35	34	46	26	31.92
2682	AMN.Afrith	Male	45	28	36	29	10	32	25	14	32	38	36	41	25	30.0
2465	R.Sahdhi	Male	40	40	24	30	11	19	25	35	40	42	22	47	15	30.00
2621	MRF.Reema	Female	36	27	50	25	10	24	14	32	44	28	26	50	18	29.53
2678	FA.Satheem	Male	37	23	29	26	10	30	18	26	38	29	36	48	33	29.46
2452	MA.Ashrif	Male	29	10	25	26	9	19	14	27	24	19	20	42	33	

```
In [22]: def highlight_max(s):
    if s.dtype == object or s.dtype == np.float64:
        is_max = [False for _ in range(s.shape[0])]
    else:
        is_max = s == s.max()
        return ['background: lightgreen' if cell else '' for cell in is_max]

data.style.apply(highlight_max)
```

index																
2477	M.Shahadha farwin	Female	85	89	70	93	85	82	83	86	80	90	82	72	90	83.6 ⁻
2557	MRF.Sahama	Female	80	75	84	83	73	88	87	73	68	95	47	65	98	78.1!
2442	MM.Rifath	Male	86	80	70	80	84	79	78	85	82	82	50	66	88	77.69
2448	MN.Abdullah	Male	88	79	83	85	76	80	75	91	76	80	45	64	87	77.6
2891	NF.Reefa	Female	78	76	78	71	69	70	73	88	60	81	41	57	64	69.69
2444	MB.IIthifath	Male	92	74	58	67	53	72	81	84	52	78	46	59	75	68.53
2674	MNM.Rislan	Male	71	73	62	67	48	65	68	72	62	65	44	66	55	62.92
2467	M.Muhainaf Iffath	Female	84	58	67	60	53	67	69	73	48	42	38	64	53	59.69
2675	A.sharaf	Male	85	68	60	62	55	57	46	79	51	57	40	52	60	59.38
2478	AF.Sumaiya	Female	74	71	76	49	55	41	58	75	50	74	39	56	42	58.46
2476	R.Hanzul	Female	75	75	67	46	23	43	60	76	61	44	49	50	69	56.76
2475	AF.Hilma	Female	80	57	52	46	49	49	52	54	64	62	34	51	54	54.1!
2683	U.Mansaf	Male	56	59	50	58	58	57	42	55	58	50	36	54	45	52.1!
2449	MN.Hayas	Male	59	50	49	40	46	68	57	49	47	41	22	56	60	49.53
2686	MF.Zahra	Female	64	55	65	51	24	35	55	65	52	42	46	54	26	48.76
2464	A.Ahnan	Male	57	55	65	37	51	33	43	44	50	38	26	59	46	46.46
2506	MF.Nafly	Male	36	53	62	47	45	48	42	44	37	43	34	51	46	45.23
2616	S.Abdurrahman	Male	49	50	45	44	42	39	43	31	69	41	37	53	38	44.69
2681	R.Rimas	Male	50	60	50	45	35	30	34	48	37	45	34	48	50	43.53
2443	MI.Ihthisam	Male	48	47	33	46	39	35	44	40	26	53	44	58	42	42.69
2679	MF.Musnif	Male	39	53	56	49	27	35	30	35	35	50	32	49	27	39.76
2445	KM.Haseef	Male	53	45	32	27	20	49	33	42	43	44	32	45	40	38.84
2471	J.Zainab saja	Female	54	37	47	45	39	33	42	39	42	30	22	37	37	38.76
2726	R.Zeenath Imthaj	Female	60	48	59	25	11	42	24	26	54	44	28	45	19	37.30
2472	RF.Hana	Female	60	52	39	27	9	35	32	30	50	48	22	48	16	36.00
2450	MM.Siraf	Male	61	52	40	40	21	29	26	36	45	25	20	50	21	35.84
2454	M.Fahath	Male	44	49	47	31	14	35	24	38	33	39	30	48	31	35.6°
2930	T.Hasif	Male	45	46	43	34	15	28	33	27	33	35	36	50	16	33.92
2688	IF.Riha	Female	36	51	38	24	14	37	17	41	44	36	34	37	27	33.53
2676	R.Izzath	Male	41	30	41	26	20	40	26	33	36	29	40	48	25	33.46
2459	MR.Hasan	Male	57	37	34	32	16	22	21	24	31	35	34	46	26	31.92
2682	AMN.Afrith	Male	45	28	36	29	10	32	25	14	32	38	36	41	25	30.07
2465	R.Sahdhi	Male	40	40	24	30	11	19	25	35	40	42	22	47	15	30.00
2621	MRF.Reema	Female	36	27	50	25	10	24	14	32	44	28	26	50	18	29.53
2678	FA.Satheem	Male	37	23	29	26	10	30	18	26	38	29	36	48	33	29.46
2452	MA.Ashrif	Male	29	10	25	26	9	19	14	27	24	19	20	42	33	22.84

```
In [23]: boys = data[data['Gender']=="Male"]
#boys

def highlight_max(s):
    if s.dtype == object or s.dtype == np.float64:
        is_max = [False for _ in range(s.shape[0])]
    else:
        is_max = s == s.max()
    return ['background: lightgreen' if cell else '' for cell in is_max]

boys.style.apply(highlight_max)
```

index																
2442	MM.Rifath	Male	86	80	70	80	84	79	78	85	82	82	50	66	88	77.69
2448	MN.Abdullah	Male	88	79	83	85	76	80	75	91	76	80	45	64	87	77.6
2444	MB.IIthifath	Male	92	74	58	67	53	72	81	84	52	78	46	59	75	68.53
2674	MNM.Rislan	Male	71	73	62	67	48	65	68	72	62	65	44	66	55	62.92
2675	A.sharaf	Male	85	68	60	62	55	57	46	79	51	57	40	52	60	59.38
2683	U.Mansaf	Male	56	59	50	58	58	57	42	55	58	50	36	54	45	52.1!
2449	MN.Hayas	Male	59	50	49	40	46	68	57	49	47	41	22	56	60	49.53
2464	A.Ahnan	Male	57	55	65	37	51	33	43	44	50	38	26	59	46	46.46
2506	MF.Nafly	Male	36	53	62	47	45	48	42	44	37	43	34	51	46	45.23
2616	S.Abdurrahman	Male	49	50	45	44	42	39	43	31	69	41	37	53	38	44.69
2681	R.Rimas	Male	50	60	50	45	35	30	34	48	37	45	34	48	50	43.53
2443	MI.Ihthisam	Male	48	47	33	46	39	35	44	40	26	53	44	58	42	42.69
2679	MF.Musnif	Male	39	53	56	49	27	35	30	35	35	50	32	49	27	39.76
2445	KM.Haseef	Male	53	45	32	27	20	49	33	42	43	44	32	45	40	38.84
2450	MM.Siraf	Male	61	52	40	40	21	29	26	36	45	25	20	50	21	35.84
2454	M.Fahath	Male	44	49	47	31	14	35	24	38	33	39	30	48	31	35.6
2930	T.Hasif	Male	45	46	43	34	15	28	33	27	33	35	36	50	16	33.97
2676	R.Izzath	Male	41	30	41	26	20	40	26	33	36	29	40	48	25	33.46
2459	MR.Hasan	Male	57	37	34	32	16	22	21	24	31	35	34	46	26	31.97
2682	AMN.Afrith	Male	45	28	36	29	10	32	25	14	32	38	36	41	25	30.07
2465	R.Sahdhi	Male	40	40	24	30	11	19	25	35	40	42	22	47	15	30.00
2678	FA.Satheem	Male	37	23	29	26	10	30	18	26	38	29	36	48	33	29.46
2452	MA.Ashrif	Male	29	10	25	26	9	19	14	27	24	19	20	42	33	22.84

```
In [24]: girls = data[data['Gender']=="Female"]
#girls

def highlight_max(s):
    if s.dtype == object or s.dtype == np.float64:
        is_max = [False for _ in range(s.shape[0])]
    else:
        is_max = s == s.max()
    return ['background: lightgreen' if cell else '' for cell in is_max]

girls.style.apply(highlight_max)
```

prin prin prin prin prin prin prin prin	MRF.Sahama NF.Reefa NF.Reefa M.Muhainaf Iffath R.Hanzul AF.Hilma MF.Zahra J.Zainab saja R.Zeenath Imthaj RF.Hana RF.Hana	<pre>n boys:") boysget {x}\n" {sum_col. : {boysi</pre>	_value _get_va get_va:	(x, col	='name') }\n"	}\n"	85 73 69 53 55 23 49 24 39 11 9 14 10	82 88 70 67 41 43 49 35 33 42 35 37 24	83 87 73 69 58 60 52 55 42 24 32 17 14	86 73 88 73 75 76 54 65 39 26 30 41 32	80 68 60 48 50 64 52 42 54 50 44 44	3 95 3 95 3 42 7 4 1 44 4 62 2 42 3 0 4 44 0 48 4 36	82 47 41 38 39 49 34 46 22 28 22 34 26	56 50 51	98 64 53 42 69 54 26 37 19 16 27	83.6153 78.1538 69.6923 59.6923 58.4615 56.7692 54.1538 48.7692 37.3076 36.0000 33.5384 29.5384
289 246 247 247 268 247 268 247 268 267 In [31]: x = prin prin Firs	M.Muhainaf Iffath M.Muhainaf Iffath R. AF.Sumaiya R.Hanzul F. AF.Hilma M.Zahra J.Zainab saja R.Zeenath Imthaj R.Hana R.Hanzul R.Hanzul R.Hanzul R.Hanzul R.Hana R.Zeenath Imthaj R.Hana	Female Female	78 84 74 75 80 64 54 60 36 36 36 s.avg.r	76 58 71 75 57 55 37 48 52 51 27 max()]. (x, col	78 67 76 67 52 65 47 59 39 38 50 index[0] ='name') }\n"	71 60 49 46 46 51 45 25 27 24 25	69 53 55 23 49 24 39 11 9	70 67 41 43 49 35 33 42 35 37	73 69 58 60 52 55 42 24 32 17	88 73 75 76 54 65 39 26 30 41	60 48 50 61 62 52 42 50 42	3 42 74 1 44 4 62 2 42 30 4 44 0 48 4 36	41 38 39 49 34 46 22 28 22 34	57 64 56 50 51 54 37 45 48	64534269542637191627	69.6923 59.6923 58.4615 56.7692 54.1538 48.7692 38.7692 37.3076 36.0000 33.5384 29.5384
246 247 247 268 247 268 247 268 268 268 268 268 268 268 268 268 268	M.Muhainaf Iffath AF.Sumaiya R.Hanzul AF.Hilma MF.Zahra J.Zainab saja R.Zeenath Imthaj RF.Hana IF.Riha MRF.Reema boys[boys['avg nt("Firs rank i nt(f"\t name: { f"\t index: f"\t Total: f"\t Average rank in boys: name: MM.Ri index: 2442 Total: 1010	Female Female Female Female Female Female Female Female Female '] == boy n boys:") boysget {x}\n" {sum_col	84 74 75 80 64 54 60 36 36 36 s.avg.r	58 71 75 57 55 37 48 52 51 27 max()]. (x, col alue(x)	67 76 67 52 65 47 59 39 38 50 index[0] ='name') }\n"	60 49 46 46 51 45 25 27 24 25	53 55 23 49 24 39 11 9	67 41 43 49 35 33 42 35 37	69 58 60 52 55 42 24 32 17	73 75 76 54 65 39 26 30 41	48 50 67 64 52 42 54 50 44	3 42 74 1 44 4 62 2 42 2 30 4 44 0 48 4 36	38 39 49 34 46 22 28 22 34	64 56 50 51 54 37 45 48	534269542637191627	59.6925 58.4615 56.7692 54.1538 48.7692 37.3076 36.0000 33.5384 29.5384
247 247 247 268 247 268 262 In [31]: x = prin prin Firs	78 AF.Sumaiya 76 R.Hanzul 75 AF.Hilma 86 MF.Zahra 71 J.Zainab saja 26 R.Zeenath Imthaj 72 RF.Hana 88 IF.Riha 21 MRF.Reema boys[boys['avg nt("Firs rank i nt(f"\t name: { f"\t index: f"\t Total: f"\t Average rank in boys: name: MM.Ri index: 2442 Total: 1010	Female Female Female Female Female Female Female Female '] == boy n boys:") boysget {x}\n" {sum_col	74 75 80 64 54 60 36 36 36 	71 75 57 55 37 48 52 51 27 max()]. (x, col	76 67 52 65 47 59 39 38 50 index[0] ='name')	49 46 46 51 45 25 27 24 25	55 23 49 24 39 11 9	41 43 49 35 33 42 35 37	58 60 52 55 42 24 32 17	75 76 54 65 39 26 30 41	50 6 64 52 42 54 50 44	74 1 44 4 62 2 42 2 30 4 44 0 48 4 36	39 49 34 46 22 28 22 34	56 50 51 54 37 45 48 37	42 69 54 26 37 19 16 27	58.4615 56.7692 54.1538 48.7692 38.7692 37.3076 36.0000 33.5384 29.5384
247 247 268 247 268 247 268 262 In [31]: x = prin prin Firs Firs	76 R.Hanzul 75 AF.Hilma 86 MF.Zahra 71 J.Zainab saja 26 R.Zeenath Imthaj 72 RF.Hana 88 IF.Riha 21 MRF.Reema boys[boys['avg nt("Firs rank i nt(f"\t name: { f"\t index: f"\t Total: f"\t Average rank in boys: name: MM.Ri index: 2442 Total: 1010	Female Female Female Female Female Female Female Female '] == boy n boys:") boysget {x}\n" {sum_col	75 80 64 54 60 36 36 36 	75 57 55 37 48 52 51 27 max()]. (x, col	67 52 65 47 59 39 38 50 index[0] ='name')	46 46 51 45 25 27 24 25	23 49 24 39 11 9	43 49 35 33 42 35 37	60525542243217	76 54 65 39 26 30 41	6° 64 52 42 54 54	1 44 4 62 2 42 30 4 44 0 48 4 36	49 34 46 22 28 22 34	50 51 54 37 45 48 37	69 54 26 37 19 16 27	56.7692 54.1538 48.7692 38.7692 37.3076 36.0000 33.5384 29.5384
247 268 247 268 268 262 In [31]: x = prin prin prin [32]: x = pri	75 AF.Hilma 86 MF.Zahra 71 J.Zainab saja 26 R.Zeenath Imthaj 72 RF.Hana 88 IF.Riha 21 MRF.Reema boys[boys['avg nt("Firs rank i nt(f"\t name: { f"\t index: f"\t Total: f"\t Average rank in boys: name: MM.Ri index: 2442 Total: 1010	Female Female Female Female Female Female Female '] == boy n boys:") boysget {x}\n" {sum_col	80 64 54 60 36 36 36 	57 55 37 48 52 51 27 max()]. (x, col	52 65 47 59 39 38 50 index[0] ='name')	46 51 45 25 27 24 25	49 24 39 11 9	49 35 33 42 35 37	52 55 42 24 32 17	54 65 39 26 30 41	64 52 42 54 50 44	4 62 2 42 2 30 4 44 0 48 4 36	34 46 22 28 22 34	51 54 37 45 48 37	542637191627	54.1538 48.7692 38.7692 37.3076 36.0000 33.5384 29.5384
268 247 272 247 268 262 In [31]: x = prin prin prin [32]: x = pri	R.Zeenath Imthaj R.Zeenath Imthaj R.F.Hana R.F.Hana R.F.Reema R.F.	Female Female Female Female Female Female '] == boy n boys:") boysget {x}\n" {sum_col. : {boysi	64 54 60 60 36 36 25.avg.r	55 37 48 52 51 27 max()]. (x, col	65 47 59 39 38 50 index[0] ='name')	51 45 25 27 24 25	24 39 11 9	35 33 42 35 37	55 42 24 32 17	65 39 26 30 41	52 42 54 50 44	2 42 2 30 4 44 0 48 4 36	46 22 28 22 34	5437454837	2637191627	48.7692 38.7692 37.3076 36.0000 33.5382 29.5384
247 272 247 268 262 In [31]: x = prin prin prin prin prin prin prin prin	R.Zeenath Imthaj RF.Hana RF.Hana RF.Reema	Female Female Female Female Female '] == boy n boys:") boysget {x}\n" {sum_col	54 60 60 36 36 s.avg.r _value _get_va	37 48 52 51 27 max()]. (x, col	47 59 39 38 50 index[0] ='name') }\n"	45 25 27 24 25	39 11 9 14	33 42 35 37	42 24 32 17	39 26 30 41	42 54 50 44	2 30 4 44 0 48 4 36	22 28 22 34	37 45 48 37	37191627	38.7692 37.3076 36.0000 33.5382 29.5384
272 247 268 262 In [31]: x = primal	R.Zeenath Imthaj RF.Hana RF.Hana RF.Reema MRF.Reema boys[boys['avg nt("Firs rank i nt(f"\t name: { f"\t Total: f"\t Average rank in boys: name: MM.Ri index: 2442 Total: 1010	Female Female Female Female '] == boy n boys:") boysget. {x}\n" {sum_col	60 60 36 36 s.avg.r _value _get_valuet_valuet_valuet_valuet_valuet	48 52 51 27 max()]. (x, col	59 39 38 50 index[0] ='name') }\n"	25 27 24 25 }\n"	11 9 14	42 35 37	24 32 17	26 30 41	54 50 44	4 44 0 48 4 36	28 22 34	45 48 37	19 16 27	37.3076 36.0000 33.538 ² 29.538 ²
247 268 262 In [31]: x = print print Firs In [32]: x = print	Imthaj RF.Hana RF.Hana IF.Riha IF.Riha IF.Riha IF.Riha IF.Riha IF.Reema boys[boys['avg nt("Firs rank i nt(f"\t name: { f"\t index: f"\t Total: f"\t Average rank in boys: name: MM.Ri index: 2442 Total: 1010	Female Female Female '] == boy n boys:") boysget {x}\n" {sum_col. : {boysi	60 36 36 s.avg.r _value _get_val	52 51 27 max()]. (x, col	39 38 50 index[0] ='name')	27 24 25 }\n"	9	35 37	32 17	30 41	50 44	0 48 4 36	22 34	48 37	16 27	36.000(33.538 ² 29.538 ²
268 262 In [31]: x = print Firs In [32]: x = print	B8 IF.Riha 21 MRF.Reema boys[boys['avg nt("Firs rank i nt(f"\t name: { f"\t index: f"\t Total: f"\t Average rank in boys: name: MM.Ri index: 2442 Total: 1010	Female Female '] == boy n boys:") boysget {x}\n" {sum_col. : {boysi	36 36 s.avg.r _value _get_value _get_value	51 27 max()]. (x, col	38 50 index[0] ='name') }\n"	24 25 }\n"	14	37	17	41	44	4 36	34	37	27	33.538 ² 29.538 ²
In [31]: x = primprimprimprimprimprimprimprimprimprim	boys[boys['avg nt("Firs rank i nt(f"\t name: { f"\t index: f"\t Average rank in boys: name: MM.Ri index: 2442 Total: 1010	Female '] == boy n boys:") boysget {x}\n" {sum_col	36 _value _get_va get_va	27 max()]. (x, col	50 index[0] ='name') }\n"	25 }\n"										29.5384
In [31]: x = primprimprimprimprimprimprimprimprimprim	boys[boys['avg nt("Firs rank i nt(f"\t name: { f"\t index: f"\t Total: f"\t Average rank in boys: name: MM.Ri index: 2442 Total: 1010	<pre>'] == boy n boys:") boysget {x}\n" {sum_col. : {boysjet fath</pre>	s.avg.r _value _get_va get_va	max()]. (x, col alue(x)	index[0] ='name') }\n"	}\n"	10	24	14	32	44	4 28	26	50	18	
In [31]: x = primulation primu	<pre>nt("Firs rank i nt(f"\t name: { f"\t index: f"\t Total: f"\t Average rank in boys: name: MM.Ri index: 2442 Total: 1010</pre>	<pre>n boys:") boysget {x}\n" {sum_col. : {boysi</pre>	_value _get_va get_va:	(x, col	='name') }\n"	}\n"										•
primprim pri	<pre>nt("Firs rank i nt(f"\t name: { f"\t index: f"\t Total: f"\t Average rank in boys: name: MM.Ri index: 2442 Total: 1010</pre>	<pre>n boys:") boysget {x}\n" {sum_col. : {boysi</pre>	_value _get_va get_va:	(x, col	='name') }\n"	}\n"										
	<pre>boys[boys['avg nt("Last Rank i nt(f"\t name: { f"\t index: f"\t Total: f"\t Average Rank in boys: name: MA.As index: 2452 Total: 297 Average: 22 girls[girls['a</pre>	n boys:") boysget {x}\n" {sum_col : {boysj chrif	_value _yalue _get_va get_va:	(x, col alue(x) lue(x,	='name') }\n" col='avg	}\n" ')}")										
pri:	<pre>girls[girls['a nt("Firs rank i nt(f"\t name: { f"\t index: f"\t Total: f"\t Average rank in girls:</pre>	n girls:" girlsge {x}\n" {sum_col.) t_value _get_va	e(x, co alue(x)	l='name' }\n")}\n"										
	name: M.Sha index: 2477 Total: 1087 Average: 83	,														
In [36]: x =	girls[girls['a	vg'] == g	irls.av	vg.max()].index	[0]										
pri:	nt("Firs rank i		\													

Firs rank in girls:

Out[24]:

index

name: M.Shahadha farwin

index: 2477 Total: 1087

Average: 83.61538461538461

Ruzaid Ahamed