


```
df=pd.read_csv("Data.csv")
```

```
print(df)
```

	name	age	semester	average marks
0	chandana	18	6th	87
1	jyothi	18	6th	88
2	swomya	18	6th	83
3	harsha	18	6th	76
4	lakshmi	18	6th	56
5	menaka	18	6th	77
6	aishwarya	18	6th	65
7	anusha	18	6th	78
8	bharathi	18	6th	69
9	chandrika	18	6th	83
10	keerthana	18	6th	72
11	nayana	18	6th	84
12	nisha	18	6th	89
13	poornima	18	6th	76
14	harish	18	6th	86
15	manoj	18	6th	86
16	karthik	18	6th	78
17	abhi	18	6th	65
18	adithya	18	6th	82
19	akash	18	6th	73
20	darshan	18	6th	65
21	gayathri	18	6th	57
22	halappa	18	6th	46
23	manjunath	18	6th	83
24	sumanth	18	6th	78
25	vijay	18	6th	67
26	koushik	18	6th	69
27	manojss	18	6th	79
28	manojsh	18	6th	86
29	kiran	18	6th	57
30	shakunthala	18	6th	45
31	nirmala	18	6th	67
32	amrutha	18	6th	87
33	keerthanas	18	6th	65
34	varsha	18	6th	46
35	pradeep	18	6th	89
36	rohan	18	6th	76
37	gurubasavaraj	18	6th	56

```
print(df.info())
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 39 entries, 0 to 38
Data columns (total 4 columns):
#   Column          Non-Null Count  Dtype
---  ---          -
0   name            39 non-null    object
1   age             39 non-null    int64
2   semester        39 non-null    object
3   average marks   39 non-null    int64
dtypes: int64(2), object(2)
memory usage: 1.3+ KB
None
```

```
df.index
```

```
↵ RangeIndex(start=0, stop=39, step=1)
```

```
df.columns
```

```
↵ Index(['name', 'age', 'semester', 'average marks'], dtype='object')
```

```
print(df["name"])
```

```
↵ 0      chandana
   1      jyothi
   2      swomya
   3      harsha
   4      lakshmi
   5      menaka
   6      aishwarya
   7      anusha
   8      bharathi
   9      chandrika
  10      keerthana
  11      nayana
  12      nisha
  13      poornima
  14      harish
  15      manoj
  16      karthik
  17      abhi
  18      adithya
  19      akash
  20      darshan
  21      gayathri
  22      halappa
  23      manjunath
  24      sumanth
  25      vijay
  26      koushik
  27      manojss
  28      manojsh
  29      kiran
  30      shakunthala
  31      nirmala
  32      amrutha
  33      keerthanas
  34      varsha
  35      pradeep
  36      rohan
  37      gurubasavaraj
Name: name, dtype: object
```

```
print(df["average marks"])
```

```
↵ 0      87
   1      88
   2      83
   3      76
   4      56
   5      77
```

```

6    65
7    78
8    69
9    83
10   72
11   84
12   89
13   76
14   86
15   86
16   78
17   65
18   82
19   73
20   65
21   57
22   46
23   83
24   78
25   67
26   69
27   79
28   86
29   57
30   45
31   67
32   87
33   65
34   46
35   89
36   76
37   56
38   87

```

Name: average marks, dtype: int64

```
print(df["name"].unique())
```

```

↳ ['chandana' 'jyothi' 'swomya' 'harsha' 'lakshmi' 'menaka' 'aishwarya'
   'anusha' 'bharathi' 'chandrika' 'keerthana' 'nayana' 'nisha' 'poornima'
   'harish' 'manoj' 'karthik' 'abhi' 'adithya' 'akash' 'darshan' 'gayathri'
   'halappa' 'manjunath' 'sumanth' 'vijay' 'koushik' 'manojss' 'manojsh'
   'kiran' 'shakunthala' 'nirmala' 'amrutha' 'keerthanas' 'varsha' 'pradeep'
   'rohan' 'gurubasavaraj']

```

```
print(df["average marks"].value_counts())
```

```

↳ average marks
65    4
87    3
83    3
76    3
78    3
86    3
56    2
69    2
67    2
46    2
89    2
57    2
73    1

```

```
79 1
84 1
82 1
88 1
72 1
77 1
45 1
Name: count, dtype: int64
```

```
print(df["average marks"].sort_values(ascending=True))
```

```
↕
30 45
22 46
34 46
4 56
37 56
29 57
21 57
33 65
6 65
20 65
17 65
25 67
31 67
26 69
8 69
10 72
19 73
13 76
3 76
36 76
5 77
7 78
24 78
16 78
27 79
18 82
9 83
23 83
2 83
11 84
14 86
28 86
15 86
0 87
32 87
38 87
1 88
12 89
35 89
Name: average marks, dtype: int64
```

```
df=pd.DataFrame(dt)
```

```
df
```



	name	age	semester	average marks	
0	chandana	18	6th	87	
1	jyothi	18	6th	88	
2	swomya	18	6th	83	
3	harsha	18	6th	76	
4	lakshmi	18	6th	56	
5	menaka	18	6th	77	
6	aishwarya	18	6th	65	
7	anusha	18	6th	78	
8	bharathi	18	6th	69	
9	chandrika	18	6th	83	
10	keerthana	18	6th	72	
11	nayana	18	6th	84	
12	nisha	18	6th	89	
13	poornima	18	6th	76	
14	harish	18	6th	86	
15	manoj	18	6th	86	
16	karthik	18	6th	78	
17	abhi	18	6th	65	
18	adithya	18	6th	82	
19	akash	18	6th	73	
20	darshan	18	6th	65	
21	gayathri	18	6th	57	
22	halappa	18	6th	46	
23	manjunath	18	6th	83	
24	sumanth	18	6th	78	
25	vijay	18	6th	67	
26	koushik	18	6th	69	
27	manojss	18	6th	79	
28	manojsh	18	6th	86	
29	kiran	18	6th	57	
30	shakunthala	18	6th	45	
31	nirmala	18	6th	67	
32	amrutha	18	6th	87	

33	keerthanas	18	6th	65
34	varsha	18	6th	46
35	pradeep	18	6th	89
36	rohan	18	6th	76
37	gurubasavaraj	18	6th	56

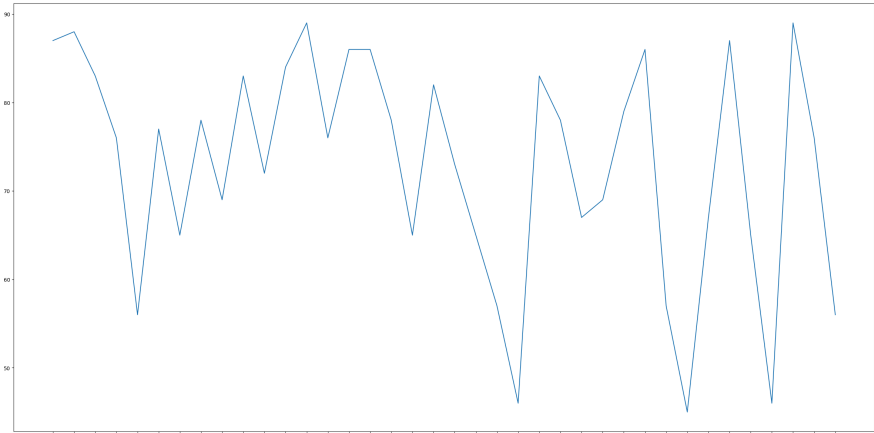
Next steps: [Generate code with df](#) [View recommended plots](#) [New interactive sheet](#)

```
import matplotlib.pyplot as plt
```

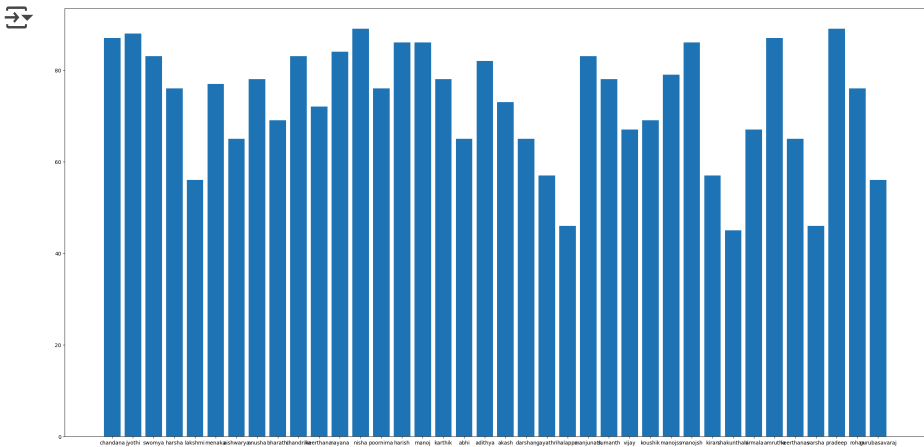
```
df=pd.DataFrame(dt)
```

```
print(df)
```

	name	age	semester	average marks
0	chandana	18	6th	87
1	jyothi	18	6th	88
2	swomya	18	6th	83
3	harsha	18	6th	76
4	lakshmi	18	6th	56
5	menaka	18	6th	77
6	aishwarya	18	6th	65
7	anusha	18	6th	78
8	bharathi	18	6th	69
9	chandrika	18	6th	83
10	keerthana	18	6th	72
11	nayana	18	6th	84
12	nisha	18	6th	89
13	poornima	18	6th	76
14	harish	18	6th	86
15	manoj	18	6th	86
16	karthik	18	6th	78
17	abhi	18	6th	65
18	adithya	18	6th	82
19	akash	18	6th	73
20	darshan	18	6th	65
21	gayathri	18	6th	57
22	halappa	18	6th	46
23	manjunath	18	6th	83
24	sumanth	18	6th	78
25	vijay	18	6th	67
26	koushik	18	6th	69
27	manojss	18	6th	79
28	manojsh	18	6th	86
29	kiran	18	6th	57
30	shakunthala	18	6th	45
31	nirmala	18	6th	67
32	amrutha	18	6th	87
33	keerthanas	18	6th	65
34	varsha	18	6th	46
35	pradeep	18	6th	89
36	rohan	18	6th	76
37	gurubasavaraj	18	6th	56



```
plt.figure(figsize=[30,15])
plt.bar(x=df[ "name"],height=df["average marks"])
plt.show()
```



```
plt.figure(figsize=[10,5])
plt.pie(x=df["average marks"].value_counts(),labels=df["average marks"].unique(),autopct="
plt.show()
```

