In [1]: import numpy as np
import pandas as pd

In [23]: x=pd.read_csv(r"C:\Users\user\Downloads\5_Instagram data - 5_Instagram data.csv
x

Out[23]:

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	F
0	3920	2586	1028	619	56	98	9	5	162	35	
1	5394	2727	1838	1174	78	194	7	14	224	48	
2	4021	2085	1188	0	533	41	11	1	131	62	
3	4528	2700	621	932	73	172	10	7	213	23	
4	2518	1704	255	279	37	96	5	4	123	8	
114	13700	5185	3041	5352	77	573	2	38	373	73	
115	5731	1923	1368	2266	65	135	4	1	148	20	
116	4139	1133	1538	1367	33	36	0	1	92	34	
117	32695	11815	3147	17414	170	1095	2	75	549	148	

_		Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	F.
-	118	36919	13473	4176	16444	2547	653	5	26	443	611	

In [24]: x.head(5)

Out[24]:

Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	Foll
3920	2586	1028	619	56	98	9	5	162	35	
I 5394	2727	1838	1174	78	194	7	14	224	48	
2 4021	2085	1188	0	533	41	11	1	131	62	
3 4528	2700	621	932	73	172	10	7	213	23	
i 2518	1704	255	279	37	96	5	4	123	8	
	3920 5394 4021	3920 2586 5394 2727 4021 2085 4528 2700	Home Hashtags 3920 2586 1028 5394 2727 1838 4021 2085 1188 4528 2700 621	Home Hashtags Explore	Home Hashtags Explore Other 3920 2586 1028 619 56 5394 2727 1838 1174 78 4021 2085 1188 0 533 4528 2700 621 932 73 2518 1704 255 279 37	Impressions Home Hashtags Explore Other Saves 3920 2586 1028 619 56 98 5394 2727 1838 1174 78 194 2 4021 2085 1188 0 533 41 3 4528 2700 621 932 73 172 4 2518 1704 255 279 37 96	Impressions Home Hashtags Explore Other Saves Comments 3920 2586 1028 619 56 98 9 5394 2727 1838 1174 78 194 7 4021 2085 1188 0 533 41 11 4528 2700 621 932 73 172 10 2518 1704 255 279 37 96 5	Impression Home Hashtags Explore Other Saves Comments Shares 3920 2586 1028 619 56 98 9 5 5394 2727 1838 1174 78 194 7 14 2 4021 2085 1188 0 533 41 11 1 3 4528 2700 621 932 73 172 10 7 4 2518 1704 255 279 37 96 5 4	Impressions Home Hashtags Explore Other Saves Comments Shares Likes 3920 2586 1028 619 56 98 9 5 162 5394 2727 1838 1174 78 194 7 14 224 4021 2085 1188 0 533 41 11 1 131 4528 2700 621 932 73 172 10 7 213 2518 1704 255 279 37 96 5 4 123	Impressions Home Hashtags Explore Other Saves Comments Shares Likes Visits 1 3920 2586 1028 619 56 98 9 5 162 35 2 5394 2727 1838 1174 78 194 7 14 224 48 2 4021 2085 1188 0 533 41 11 1 131 62 3 4528 2700 621 932 73 172 10 7 213 23 4 2518 1704 255 279 37 96 5 4 123 8

In [25]: x.tail(5)

Out[25]:

•		Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	F
	114	13700	5185	3041	5352	77	573	2	38	373	73	
	115	5731	1923	1368	2266	65	135	4	1	148	20	
	116	4139	1133	1538	1367	33	36	0	1	92	34	
	117	32695	11815	3147	17414	170	1095	2	75	549	148	
	118	36919	13473	4176	16444	2547	653	5	26	443	611	

In [26]: x.dtypes

Out[26]: Impressions int64 From Home int64 From Hashtags int64 From Explore int64 From Other int64 Saves int64 Comments int64 Shares int64 Likes int64 Profile Visits int64 Follows int64 Caption object Hashtags object dtype: object

```
In [27]: x.index
Out[27]: RangeIndex(start=0, stop=119, step=1)
In [28]: |x.describe()
```

Out[28]:

Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comm
119.000000	119.000000	119.000000	119.000000	119.000000	119.000000	119.00
5703.991597	2475.789916	1887.512605	1078.100840	171.092437	153.310924	6.66
4843.780105	1489.386348	1884.361443	2613.026132	289.431031	156.317731	3.54
1941.000000	1133.000000	116.000000	0.000000	9.000000	22.000000	0.00
3467.000000	1945.000000	726.000000	157.500000	38.000000	65.000000	4.00
4289.000000	2207.000000	1278.000000	326.000000	74.000000	109.000000	6.00
6138.000000	2602.500000	2363.500000	689.500000	196.000000	169.000000	8.00
36919.000000	13473.000000	11817.000000	17414.000000	2547.000000	1095.000000	19.00
	119.000000 5703.991597 4843.780105 1941.000000 3467.000000 4289.000000 6138.000000	119.000000 119.000000 5703.991597 2475.789916 4843.780105 1489.386348 1941.000000 1133.000000 3467.000000 1945.000000 4289.000000 2207.000000 6138.000000 2602.500000	Impressions From Home Hashtags 119.000000 119.000000 119.000000 5703.991597 2475.789916 1887.512605 4843.780105 1489.386348 1884.361443 1941.000000 1133.000000 116.000000 3467.000000 1945.000000 726.000000 4289.000000 2207.000000 1278.000000 6138.000000 2602.500000 2363.500000	Impressions From Home Hashtags Explore 119.000000 119.000000 119.000000 119.000000 5703.991597 2475.789916 1887.512605 1078.100840 4843.780105 1489.386348 1884.361443 2613.026132 1941.000000 1133.000000 116.000000 0.000000 3467.000000 1945.000000 726.000000 157.500000 4289.000000 2207.000000 1278.000000 326.000000 6138.000000 2602.500000 2363.500000 689.500000	Impressions From Home Hashtags Explore From Other 119.000000 119.000000 119.000000 119.000000 119.000000 5703.991597 2475.789916 1887.512605 1078.100840 171.092437 4843.780105 1489.386348 1884.361443 2613.026132 289.431031 1941.000000 1133.000000 116.000000 0.000000 9.000000 3467.000000 1945.000000 726.000000 157.500000 38.000000 4289.000000 2207.000000 1278.000000 326.000000 74.000000 6138.000000 2602.500000 2363.500000 689.500000 196.000000	Impressions From Home Hashtags Explore From Other Saves 119.000000 119.000000 119.000000 119.000000 119.000000 119.000000 5703.991597 2475.789916 1887.512605 1078.100840 171.092437 153.310924 4843.780105 1489.386348 1884.361443 2613.026132 289.431031 156.317731 1941.000000 1133.000000 116.000000 0.000000 9.000000 22.000000 3467.000000 1945.000000 726.000000 157.500000 38.000000 65.000000 4289.000000 2207.000000 1278.000000 326.000000 74.000000 109.000000 6138.000000 2602.500000 2363.500000 689.500000 196.000000 169.000000

```
In [29]: x["Shares"]
```

```
Out[29]: 0
                   5
          1
                  14
          2
                   1
          3
                   7
          4
                   4
          114
                  38
          115
          116
                  1
          117
                  75
          118
                  26
```

Name: Shares, Length: 119, dtype: int64

In [30]: x.loc[1:7]

Out[30]:

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	Foll
1	5394	2727	1838	1174	78	194	7	14	224	48	
2	4021	2085	1188	0	533	41	11	1	131	62	
3	4528	2700	621	932	73	172	10	7	213	23	
4	2518	1704	255	279	37	96	5	4	123	8	
5	3884	2046	1214	329	43	74	7	10	144	9	
6	2621	1543	599	333	25	22	5	1	76	26	
7	3541	2071	628	500	60	135	4	9	124	12	
4 ()				•

In [31]: x.isna()

Out[31]:

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	F
0	False	False	False	False	False	False	False	False	False	False	
1	False	False	False	False	False	False	False	False	False	False	
2	False	False	False	False	False	False	False	False	False	False	
3	False	False	False	False	False	False	False	False	False	False	
4	False	False	False	False	False	False	False	False	False	False	
114	False	False	False	False	False	False	False	False	False	False	
115	False	False	False	False	False	False	False	False	False	False	
116	False	False	False	False	False	False	False	False	False	False	
117	False	False	False	False	False	False	False	False	False	False	
118	False	False	False	False	False	False	False	False	False	False	

119 rows × 13 columns

In [32]: x.fillna(value=100)

Out[32]:

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	F:
0	3920	2586	1028	619	56	98	9	5	162	35	
1	5394	2727	1838	1174	78	194	7	14	224	48	
2	4021	2085	1188	0	533	41	11	1	131	62	
3	4528	2700	621	932	73	172	10	7	213	23	
4	2518	1704	255	279	37	96	5	4	123	8	
114	13700	5185	3041	5352	77	573	2	38	373	73	
115	5731	1923	1368	2266	65	135	4	1	148	20	
116	4139	1133	1538	1367	33	36	0	1	92	34	
117	32695	11815	3147	17414	170	1095	2	75	549	148	

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	F.
118	36919	13473	4176	16444	2547	653	5	26	443	611	

In [33]: x.dropna()

Out[33]:

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	F
0	3920	2586	1028	619	56	98	9	5	162	35	
1	5394	2727	1838	1174	78	194	7	14	224	48	
2	4021	2085	1188	0	533	41	11	1	131	62	
3	4528	2700	621	932	73	172	10	7	213	23	
4	2518	1704	255	279	37	96	5	4	123	8	
114	13700	5185	3041	5352	77	573	2	38	373	73	
115	5731	1923	1368	2266	65	135	4	1	148	20	
116	4139	1133	1538	1367	33	36	0	1	92	34	
117	32695	11815	3147	17414	170	1095	2	75	549	148	

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	F
118	36919	13473	4176	16444	2547	653	5	26	443	611	_

In [35]: x.dropna(axis=1,how="any")

Out[35]:

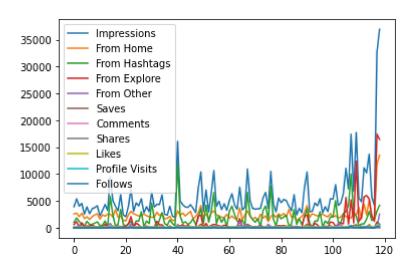
	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	F
0	3920	2586	1028	619	56	98	9	5	162	35	
1	5394	2727	1838	1174	78	194	7	14	224	48	
2	4021	2085	1188	0	533	41	11	1	131	62	
3	4528	2700	621	932	73	172	10	7	213	23	
4	2518	1704	255	279	37	96	5	4	123	8	
114	13700	5185	3041	5352	77	573	2	38	373	73	
115	5731	1923	1368	2266	65	135	4	1	148	20	
116	4139	1133	1538	1367	33	36	0	1	92	34	
117	32695	11815	3147	17414	170	1095	2	75	549	148	

	но но	ome H	ashtags	Explore	Other	Saves	Comments	Snares	Likes	Visits	<u> </u>
118 3	6919 13	3473	4176	16444	2547	653	5	26	443	611	

```
In [36]: import matplotlib.pyplot as pp
```

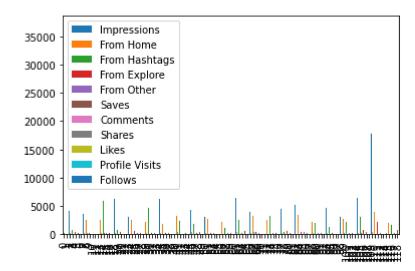
In [37]: | x.plot.line()

Out[37]: <AxesSubplot:>



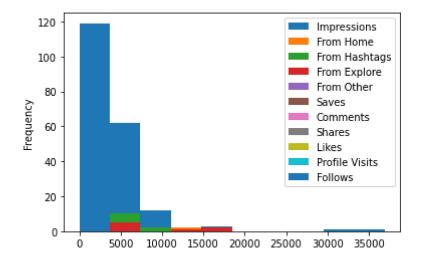
In [38]: x.plot.bar()

Out[38]: <AxesSubplot:>



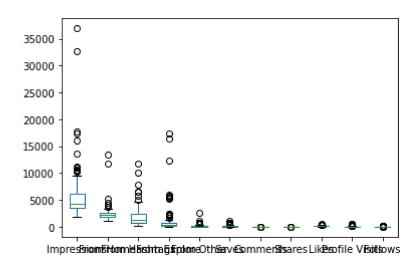
```
In [39]: x.plot.hist()
```

Out[39]: <AxesSubplot:ylabel='Frequency'>



In [40]: x.plot.box()

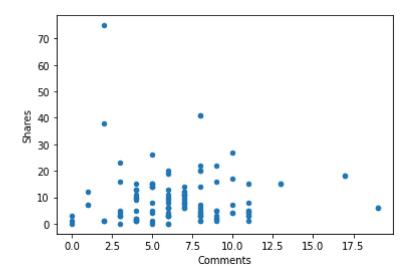
Out[40]: <AxesSubplot:>



```
In [41]: x.plot.pie(y='Comments')
                                              38
                                              39
                                              40
                                              41
                                              42
                                              43
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                                              47
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                                              50
                                              51
                                              52
                                              53
                                              54
                                              55
                                              56
                                              57
                                              58
```

In [42]: x.plot.scatter(x='Comments',y='Shares')

Out[42]: <AxesSubplot:xlabel='Comments', ylabel='Shares'>



In []: