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

In [42]:
```
df=pd.read_csv(r"C:\Users\Admin\Downloads\5_Instagram data - 5_Instagram data.c
df
```

Out[42]:

	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	

119 rows × 13 columns

In [43]:
```
df.isnull()
```

Out[43]:

	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 [44]:
```
df.fillna(0,inplace=True)
```

In [45]:
```
df.shape
```

Out[45]:
```
(119, 13)
```

In [46]:
```
df.size
```

Out[46]:
```
1547
```

In [47]:
```
df.ndim
```

Out[47]:
```
2
```

In [48]:
```
df.head()
```

Out[48]:

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	Follo
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	

In [49]:
```
df.tail()
```

Out[49]:

	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 [50]:
```
df.dropna(axis=1,how='any')
```

Out[50]:

	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	

119 rows × 13 columns

In [51]:
```
df.loc[10:35]
```

19	2407	1338	655	276	39	40	8	20	72	10
20	2064	1304	362	249	37	49	4	5	76	9
21	3973	2415	745	676	18	72	3	4	91	11
22	7281	3065	1254	2081	748	167	7	9	195	144
23	3052	2608	201	121	87	63	5	14	129	14

In [52]:
```
df2=df[df['Likes']<=100]
df2
```

Out[52]:

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	F
6	2621	1543	599	333	25	22	5	1	76	26	
10	2218	1597	411	162	15	28	6	3	81	29	
19	2407	1338	655	276	39	40	8	20	72	10	
20	2064	1304	362	249	37	49	4	5	76	9	
21	3973	2415	745	676	18	72	3	4	91	11	
29	3015	2034	771	115	41	52	11	4	92	9	
35	2523	1659	796	29	21	34	6	0	86	4	
36	2327	1774	435	59	35	45	3	3	85	7	
38	2191	1308	809	45	18	35	2	1	72	18	
39	1941	1466	411	37	17	49	6	3	82	8	
52	2941	1716	1058	84	48	48	2	1	99	12	
65	3333	1502	1423	182	148	38	3	5	96	37	
69	3601	1570	1518	174	167	51	0	3	94	48	

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	F
71	3525	1323	1699	182	292	33	5	0	96	26	
75	3623	1179	1527	157	655	34	3	0	95	41	
86	2407	1338	655	276	39	40	8	20	72	10	
98	3015	2034	771	115	41	52	11	4	92	9	
111	4842	1658	694	2036	310	55	6	4	86	46	
116	4139	1133	1538	1367	33	36	0	1	92	34	

In [53]:
```
df.iloc[1:3]
```

Out[53]:

	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	

In [54]:
```
df.index
```

Out[54]:
```
RangeIndex(start=0, stop=119, step=1)
```

In [55]:
```
df.columns
```

Out[55]:
```
Index(['Impressions', 'From Home', 'From Hashtags', 'From Explore',
       'From Other', 'Saves', 'Comments', 'Shares', 'Likes', 'Profile Visit
s',
       'Follows', 'Caption', 'Hashtags'],
      dtype='object')
```

In [56]:
```
df.describe()
```

Out[56]:

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comm
count	119.000000	119.000000	119.000000	119.000000	119.000000	119.000000	119.00
mean	5703.991597	2475.789916	1887.512605	1078.100840	171.092437	153.310924	6.66
std	4843.780105	1489.386348	1884.361443	2613.026132	289.431031	156.317731	3.54
min	1941.000000	1133.000000	116.000000	0.000000	9.000000	22.000000	0.00
25%	3467.000000	1945.000000	726.000000	157.500000	38.000000	65.000000	4.00
50%	4289.000000	2207.000000	1278.000000	326.000000	74.000000	109.000000	6.00
75%	6138.000000	2602.500000	2363.500000	689.500000	196.000000	169.000000	8.00
max	36919.000000	13473.000000	11817.000000	17414.000000	2547.000000	1095.000000	19.00

In [57]:
```
df1=df2[['Saves','Shares']]
df1
```

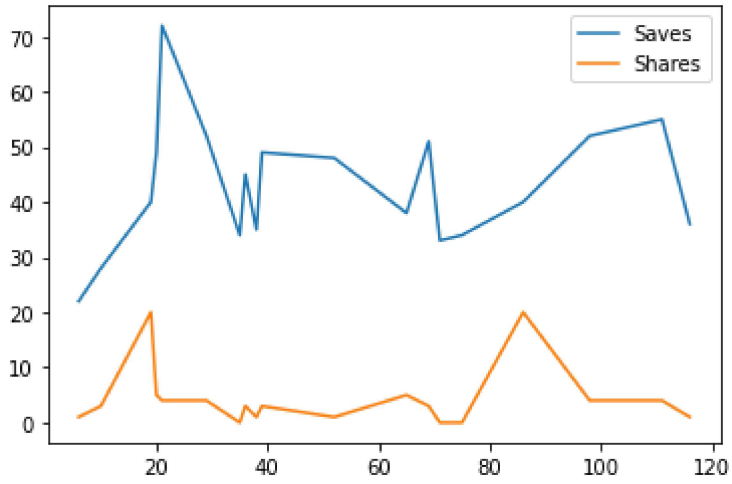
Out[57]:

	Saves	Shares
6	22	1
10	28	3
19	40	20
20	49	5
21	72	4
29	52	4
35	34	0
36	45	3
38	35	1
39	49	3
52	48	1
65	38	5
69	51	3
71	33	0
75	34	0
86	40	20
98	52	4
111	55	4
116	36	1

In [58]:
```
import matplotlib.pyplot as pp
```

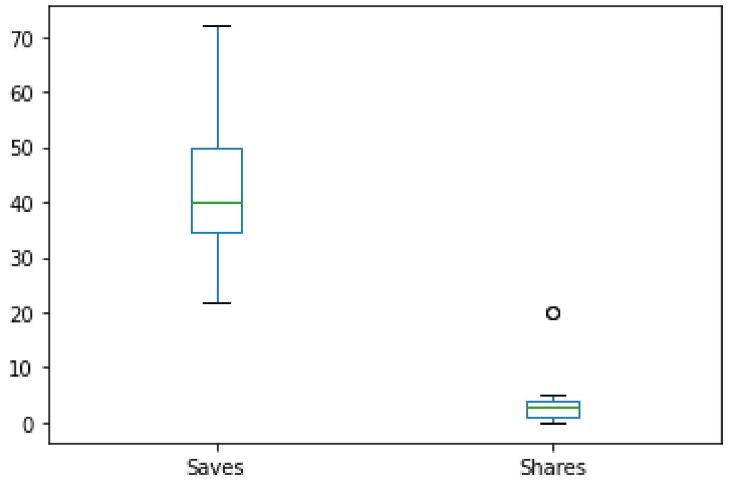
In [59]:
```
df1.plot.line()
```

Out[59]: <matplotlib.axes._subplots.AxesSubplot at 0x142d5003970>



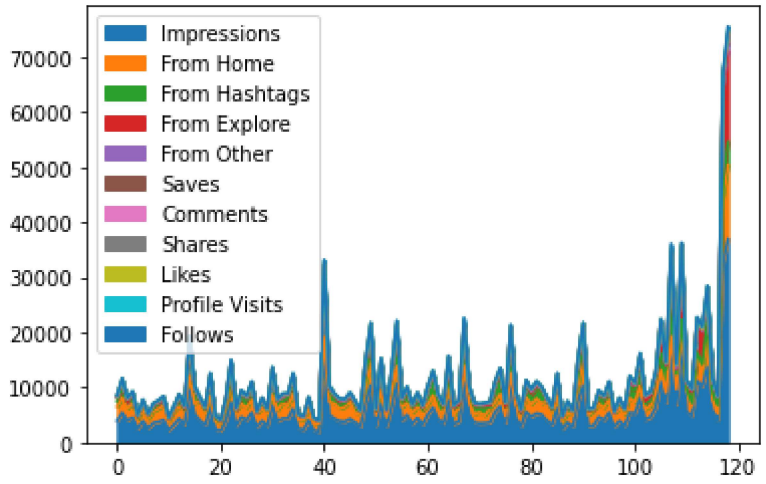
In [60]:
```
df1.plot.box()
```

Out[60]: <matplotlib.axes._subplots.AxesSubplot at 0x142d5068ac0>



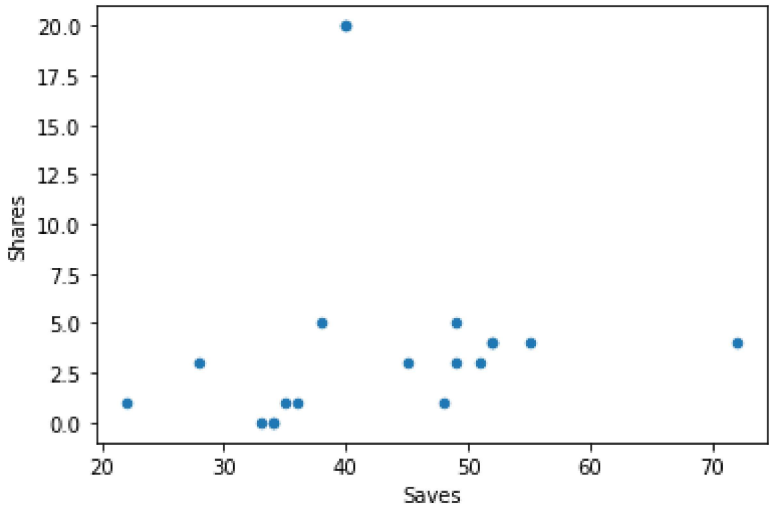
In [61]:
```
df.plot.area()
```

Out[61]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x142d50d14c0>
```



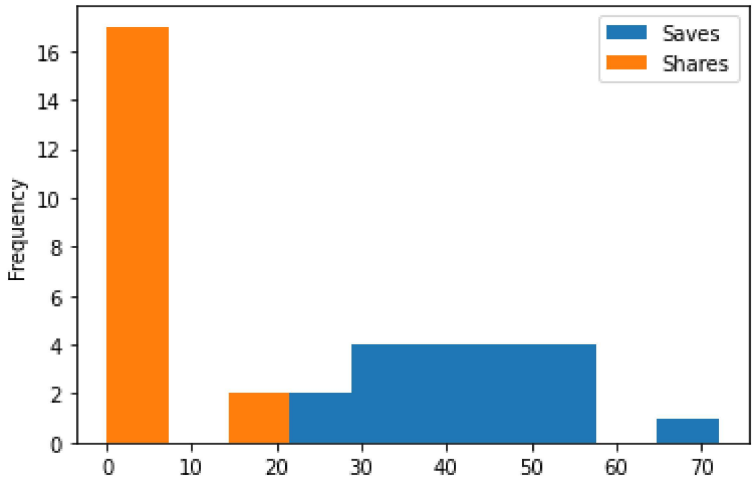
In [64]:
```
df1.plot.scatter(x='Saves',y='Shares')
```

Out[64]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x142d53680a0>
```



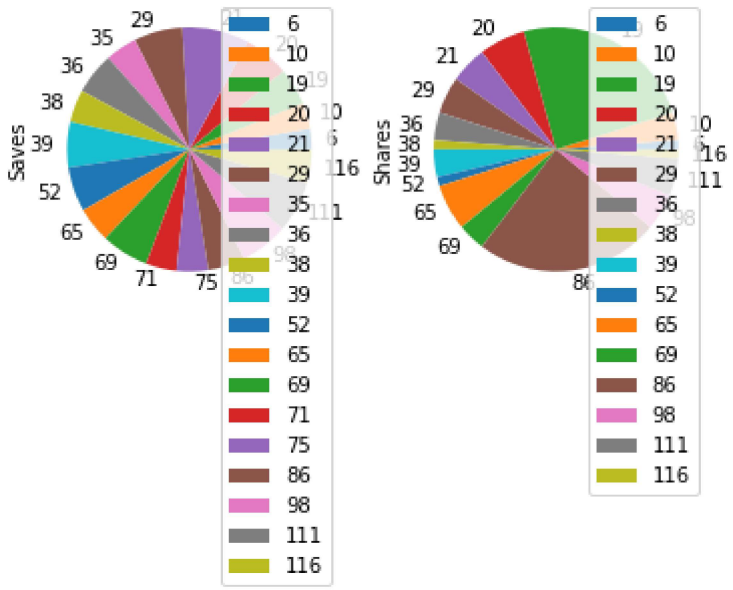
In [65]:
```
df1.plot.hist()
```

Out[65]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x142d50db3a0>
```



In [66]:
```
df1.plot.pie(subplots=True)
```

Out[66]:
```
array([<matplotlib.axes._subplots.AxesSubplot object at 0x00000142D544DE50>,
       <matplotlib.axes._subplots.AxesSubplot object at 0x00000142D5472610>],
      dtype=object)
```



In [ ]:

In [ ]: