Kaviyadevi M 20106064 ¶

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

In [4]:
```
data=pd.read_csv(r"C:\Users\user\Downloads\5_Instagram data - 5_Instagram data.cs
data
```

Out[4]:

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	Follow
0	3920	2586	1028	619	56	98	9	5	162	35	
1	5394	2727	1838	1174	78	194	7	14	224	48	1
2	4021	2085	1188	0	533	41	11	1	131	62	1
3	4528	2700	621	932	73	172	10	7	213	23	
4	2518	1704	255	279	37	96	5	4	123	8	
...	...	...	...	...	...	...	...	...	...	...	.
4	13700	5185	3041	5352	77	573	2	38	373	73	8
5	5731	1923	1368	2266	65	135	4	1	148	20	1
6	4139	1133	1538	1367	33	36	0	1	92	34	1
7	32695	11815	3147	17414	170	1095	2	75	549	148	21

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	Follow
8	36919	13473	4176	16444	2547	653	5	26	443	611	22

9 rows × 13 columns

Data Preprocessing

In [5]:
```
data.head()
```

Out[5]:

	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 [6]:
```
data.tail()
```

Out[6]:

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	Fo
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 [7]:
```
data.describe()
```

Out[7]:

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Commer
count	119.000000	119.000000	119.000000	119.000000	119.000000	119.000000	119.0000
mean	5703.991597	2475.789916	1887.512605	1078.100840	171.092437	153.310924	6.6638
std	4843.780105	1489.386348	1884.361443	2613.026132	289.431031	156.317731	3.5445
min	1941.000000	1133.000000	116.000000	0.000000	9.000000	22.000000	0.0000
25%	3467.000000	1945.000000	726.000000	157.500000	38.000000	65.000000	4.0000
50%	4289.000000	2207.000000	1278.000000	326.000000	74.000000	109.000000	6.0000
75%	6138.000000	2602.500000	2363.500000	689.500000	196.000000	169.000000	8.0000
max	36919.000000	13473.000000	11817.000000	17414.000000	2547.000000	1095.000000	19.0000

In [8]:
```
print(np.shape(data))
```

```
(119, 13)
```

In [9]:
```
print(np.size(data))
```

```
1547
```

In [10]:
```
data.dropna(0)
```

Out[10]:

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

119 rows × 13 columns

Data Visualization

In [11]:
```
data=data[['From Home','From Hashtags']]
data
```

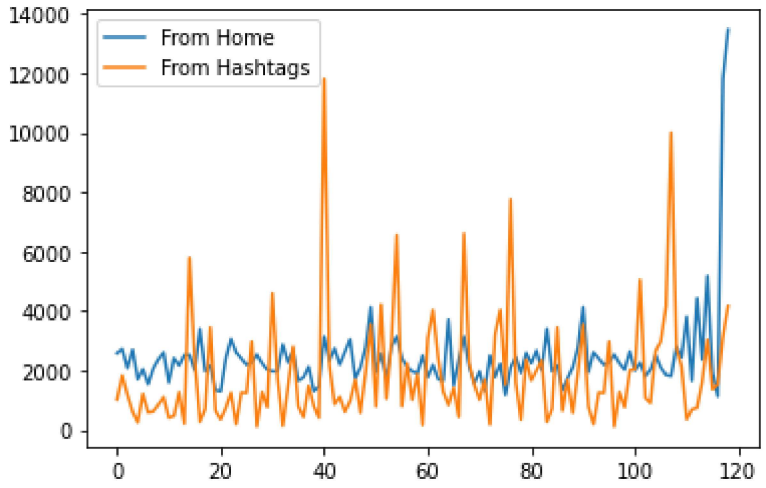
Out[11]:

	From Home	From Hashtags
0	2586	1028
1	2727	1838
2	2085	1188
3	2700	621
4	1704	255
...	...	...
114	5185	3041
115	1923	1368
116	1133	1538
117	11815	3147
118	13473	4176

119 rows × 2 columns

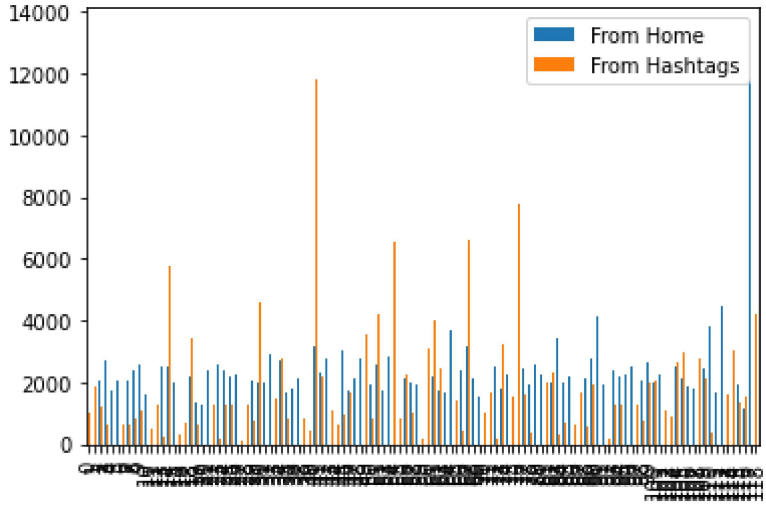
In [12]:
```
data.plot.line()
```

Out[12]: <AxesSubplot:>



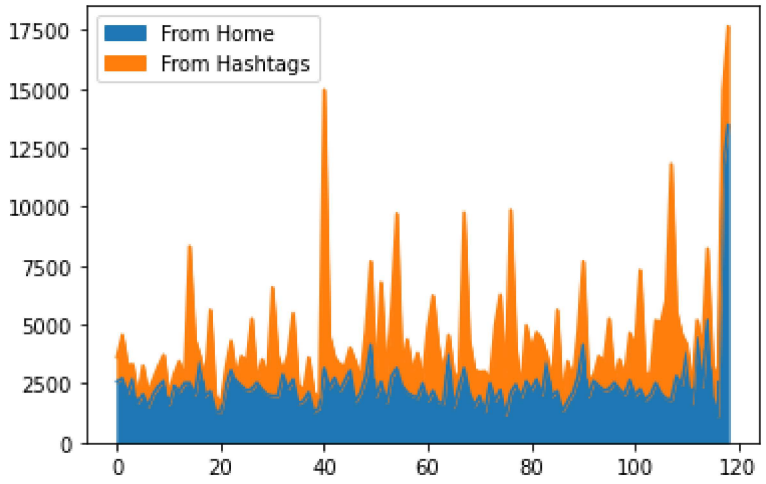
In [13]:
```
data.plot.bar()
```

Out[13]: <AxesSubplot:>



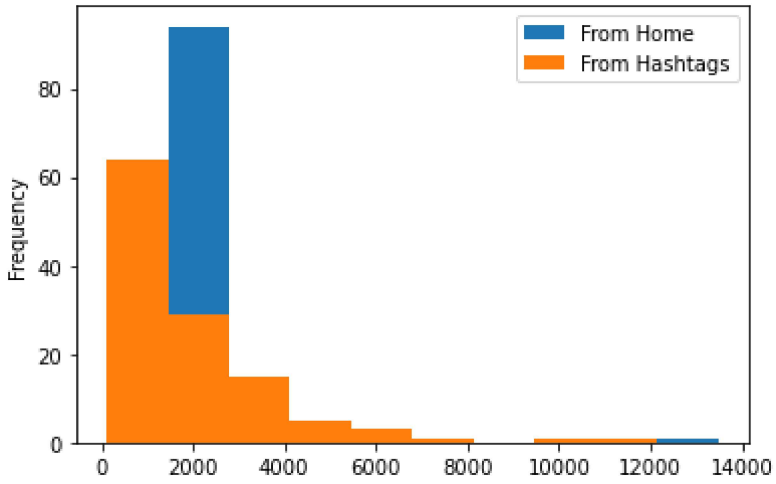
In [14]:
```
data.plot.area()
```

Out[14]: <AxesSubplot:>



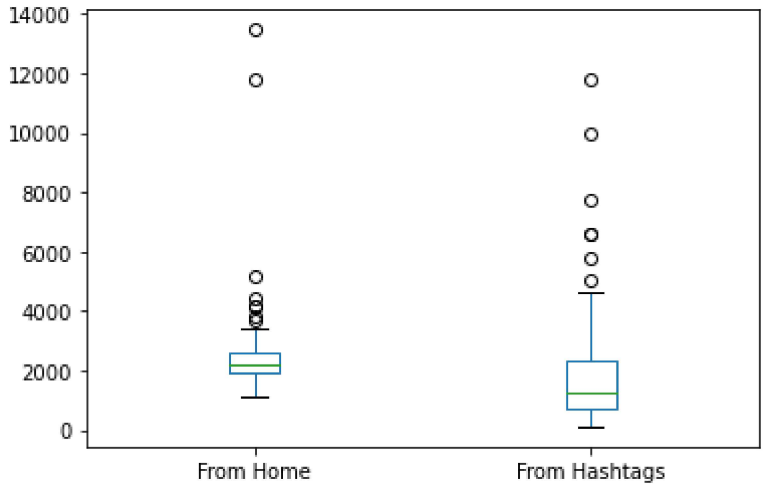
In [15]:
```
data.plot.hist()
```

Out[15]: <AxesSubplot:ylabel='Frequency'>



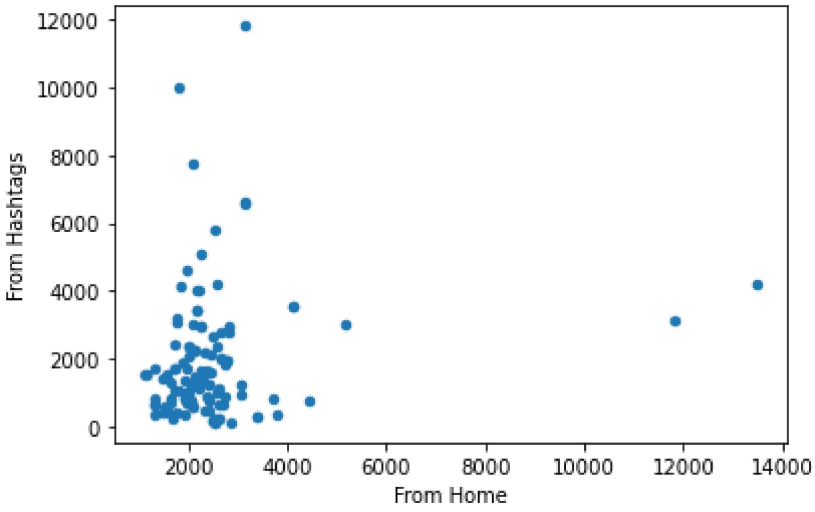
In [16]:
```
data.plot.box()
```

Out[16]: <AxesSubplot:>



In [17]:
```
data.plot.scatter(x="From Home",y="From Hashtags")
```

Out[17]: <AxesSubplot:xlabel='From Home', ylabel='From Hashtags'>



In [18]:
```
data.plot.pie(subplots=True)
```

Out[18]:
```
array([<AxesSubplot:ylabel='From Home'>,
       <AxesSubplot:ylabel='From Hashtags'>], dtype=object)
```

In [ ]: