# Data set 6

In [1]:

```
import numpy as np
import pandas as pd
```

In [2]:

```
a=pd.read_csv(r"C:\Users\user\Downloads\5_Instagram data.csv")
```

To print top rows:

In [3]:

```
a.head()
```

Out[3]:

| | 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 |

To print Last rows:

In [4]:

```
a.tail()
```

Out[4]:

| | Impressions | From Home | From Hashtags | From Explore | From Other | Saves | Comments | Shares | Likes | Profile Visits |
|---|---|---|---|---|---|---|---|---|---|---|
| **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 |

Statistical Summary:

In [5]:

```
a.describe()
```

Out[5]:

| | Impressions | From Home | From Hashtags | From Explore | From Other | Saves | Co |
|---|---|---|---|---|---|---|---|
| **count** | 119.000000 | 119.000000 | 119.000000 | 119.000000 | 119.000000 | 119.000000 | 11 |
| **mean** | 5703.991597 | 2475.789916 | 1887.512605 | 1078.100840 | 171.092437 | 153.310924 | |
| **std** | 4843.780105 | 1489.386348 | 1884.361443 | 2613.026132 | 289.431031 | 156.317731 | |
| **min** | 1941.000000 | 1133.000000 | 116.000000 | 0.000000 | 9.000000 | 22.000000 | |
| **25%** | 3467.000000 | 1945.000000 | 726.000000 | 157.500000 | 38.000000 | 65.000000 | |
| **50%** | 4289.000000 | 2207.000000 | 1278.000000 | 326.000000 | 74.000000 | 109.000000 | |
| **75%** | 6138.000000 | 2602.500000 | 2363.500000 | 689.500000 | 196.000000 | 169.000000 | |
| **max** | 36919.000000 | 13473.000000 | 11817.000000 | 17414.000000 | 2547.000000 | 1095.000000 | 1 |

To print no of rows and columns

In [6]:

```
a.shape
```

Out[6]:

```
(119, 13)
```

To print no of elements

In [7]:

```
a.size
```

Out[7]:

```
1547
```

Missing no of values

In [8]:

```
a.isna()
```

Out[8]:

| | Impressions | From Home | From Hashtags | From Explore | From Other | Saves | Comments | Shares | Likes | Profile Visits |
|---|---|---|---|---|---|---|---|---|---|---|
| **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 [9]:

```
import matplotlib.pyplot as pp
```

In [10]:

```
b=a[['Impressions','From Home']]
b
```

Out[10]:

| | Impressions | From Home |
|---|---|---|
| **0** | 3920 | 2586 |
| **1** | 5394 | 2727 |
| **2** | 4021 | 2085 |
| **3** | 4528 | 2700 |
| **4** | 2518 | 1704 |
| **...** | ... | ... |
| **114** | 13700 | 5185 |
| **115** | 5731 | 1923 |
| **116** | 4139 | 1133 |
| **117** | 32695 | 11815 |
| **118** | 36919 | 13473 |

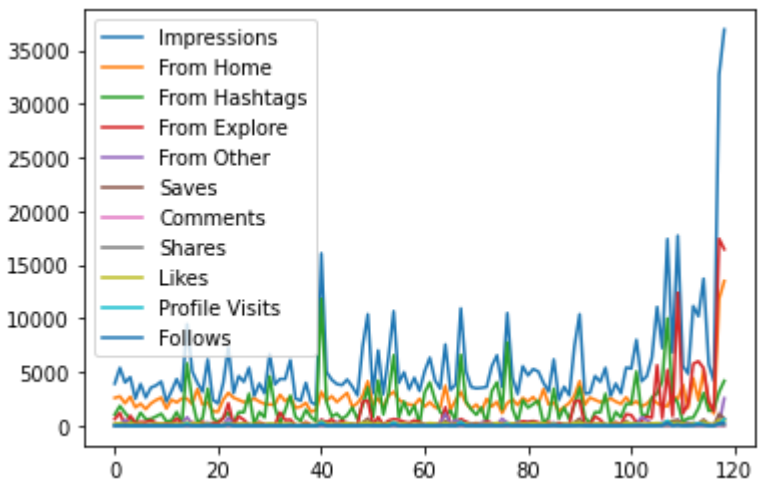
119 rows × 2 columns

In [11]:

```
a.plot.line()
```

Out[11]:

```
<AxesSubplot:>
```

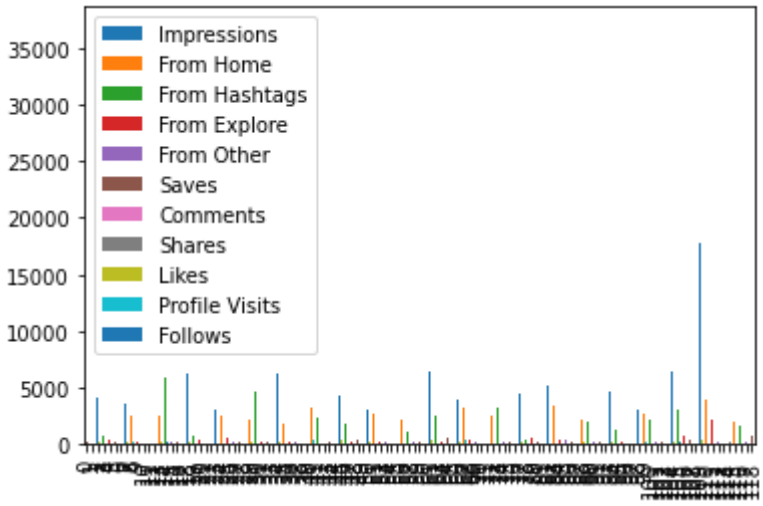


In [12]:

```
a.plot.bar()
```

Out[12]:

<AxesSubplot:>

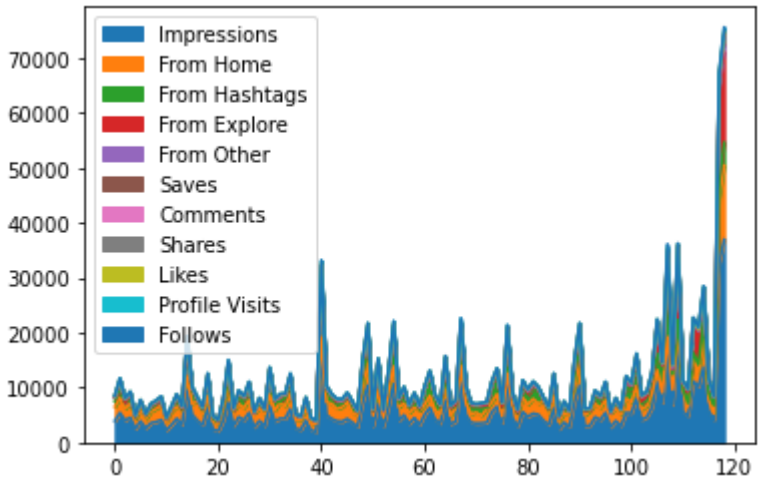



In [13]:

```
a.plot.area()
```

Out[13]:

<AxesSubplot:>

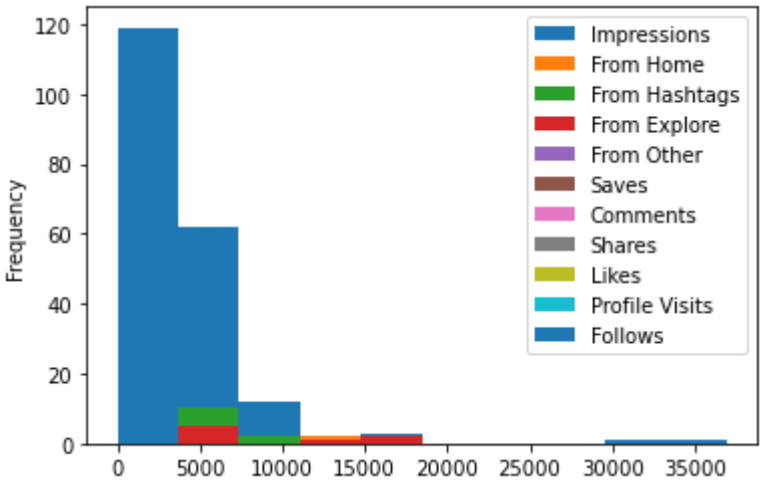


In [14]:

```
a.plot.hist()
```

Out[14]:

```
<AxesSubplot:ylabel='Frequency'>
```

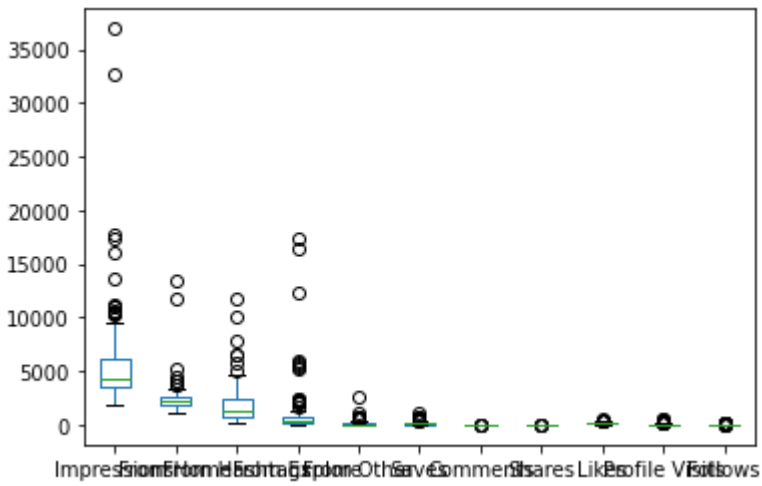



In [15]:

```
a.plot.box()
```

Out[15]:

```
<AxesSubplot:>
```



In [16]:

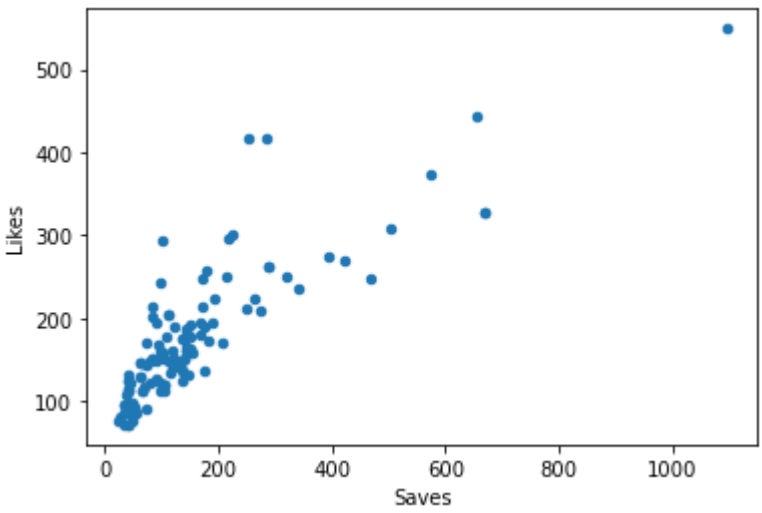
```
a.plot.pie(y='From Explore',figsize=(3,3))
```


In [17]:

```
a.plot.scatter(x='Saves',y='Likes')
```

Out[17]:

```
<AxesSubplot:xlabel='Saves', ylabel='Likes'>
```




In [ ]: