

```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

```
In [2]: data=pd.read_csv(r"C:\Users\user\Desktop\Vicky\3_Fitness-1.csv")
```

```
In [3]: data.shape
```

```
Out[3]: (9, 5)
```

```
In [4]: data.head
```

```
Out[4]: <bound method NDFrame.head of      Row Labels Sum of Jan Sum of Feb Sum of Mar
Sum of Total Sales
0          A    5.62%      7.73%      6.16%          75
1          B    4.21%     17.27%     19.21%         160
2          C    9.83%     11.60%      5.17%         101
3          D    2.81%     21.91%      7.88%         127
4          E   25.28%     10.57%     11.82%         179
5          F    8.15%     16.24%     18.47%         167
6          G   18.54%      8.76%     17.49%         171
7          H   25.56%      5.93%     13.79%         170
8  Grand Total  100.00%    100.00%    100.00%        1150>
```

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

```
Out[5]:
```

|   | Row Labels  | Sum of Jan | Sum of Feb | Sum of Mar | Sum of Total Sales |
|---|-------------|------------|------------|------------|--------------------|
| 4 | E           | 25.28%     | 10.57%     | 11.82%     | 179                |
| 5 | F           | 8.15%      | 16.24%     | 18.47%     | 167                |
| 6 | G           | 18.54%     | 8.76%      | 17.49%     | 171                |
| 7 | H           | 25.56%     | 5.93%      | 13.79%     | 170                |
| 8 | Grand Total | 100.00%    | 100.00%    | 100.00%    | 1150               |

```
In [6]: data.describe()
```

```
Out[6]:
```

|       | Sum of Total Sales |
|-------|--------------------|
| count | 9.000000           |
| mean  | 255.555556         |
| std   | 337.332963         |
| min   | 75.000000          |
| 25%   | 127.000000         |
| 50%   | 167.000000         |
| 75%   | 171.000000         |
| max   | 1150.000000        |

In [7]: `data.isna()`

Out[7]:

|   | Row Labels | Sum of Jan | Sum of Feb | Sum of Mar | Sum of Total Sales |
|---|------------|------------|------------|------------|--------------------|
| 0 | False      | False      | False      | False      | False              |
| 1 | False      | False      | False      | False      | False              |
| 2 | False      | False      | False      | False      | False              |
| 3 | False      | False      | False      | False      | False              |
| 4 | False      | False      | False      | False      | False              |
| 5 | False      | False      | False      | False      | False              |
| 6 | False      | False      | False      | False      | False              |
| 7 | False      | False      | False      | False      | False              |
| 8 | False      | False      | False      | False      | False              |

In [8]: `data.size`

Out[8]: 45

In [9]: `data.isna`

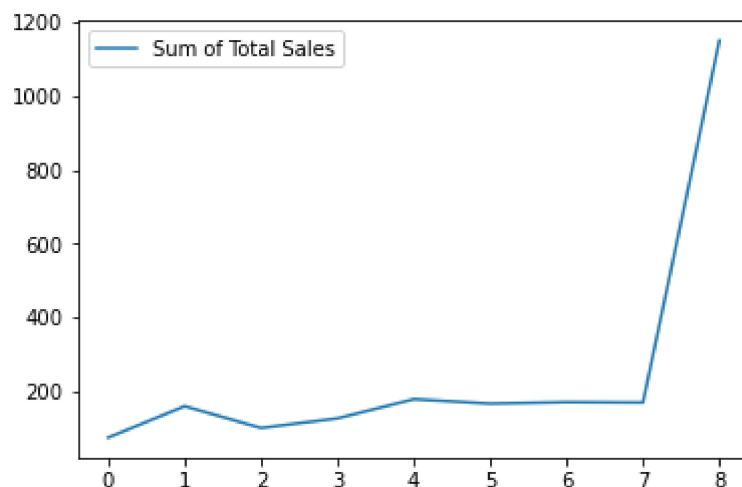
Out[9]: <bound method DataFrame.isna of  
 ar Sum of Total Sales

|   | Row Labels  | Sum of Jan | Sum of Feb | Sum of M |
|---|-------------|------------|------------|----------|
| 0 | A           | 5.62%      | 7.73%      | 6.16%    |
| 1 | B           | 4.21%      | 17.27%     | 19.21%   |
| 2 | C           | 9.83%      | 11.60%     | 5.17%    |
| 3 | D           | 2.81%      | 21.91%     | 7.88%    |
| 4 | E           | 25.28%     | 10.57%     | 11.82%   |
| 5 | F           | 8.15%      | 16.24%     | 18.47%   |
| 6 | G           | 18.54%     | 8.76%      | 17.49%   |
| 7 | H           | 25.56%     | 5.93%      | 13.79%   |
| 8 | Grand Total | 100.00%    | 100.00%    | 100.00%  |

75  
160  
101  
127  
179  
167  
171  
170  
1150>

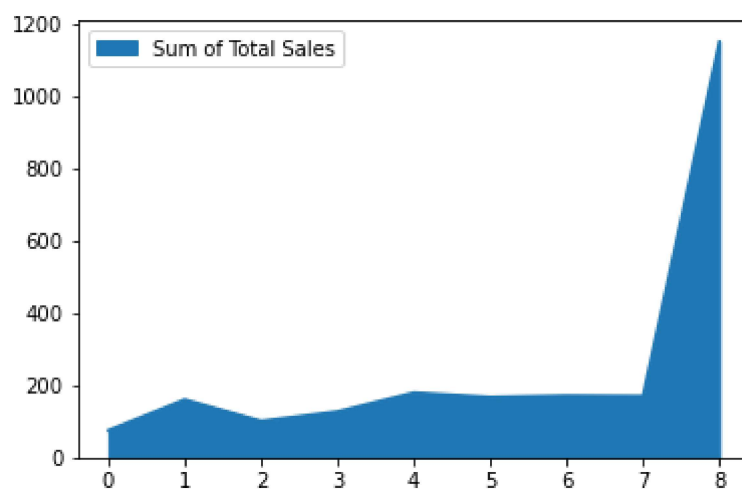
In [10]: `data.plot.line()`

Out[10]: <AxesSubplot:>



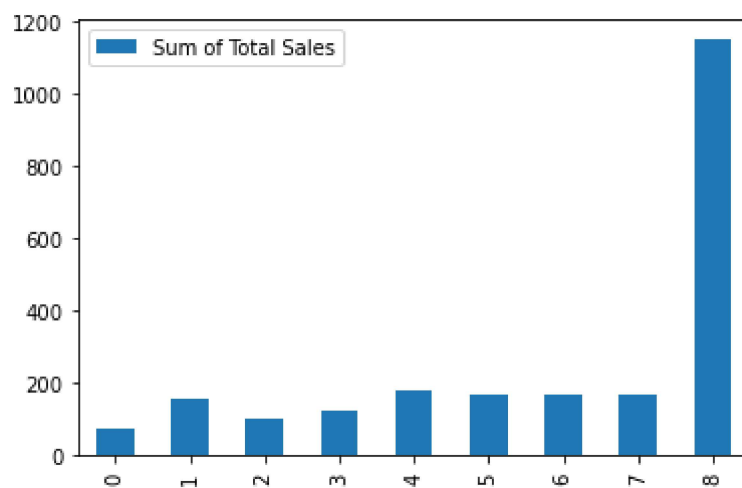
```
In [11]: data.plot.area()
```

```
Out[11]: <AxesSubplot:>
```



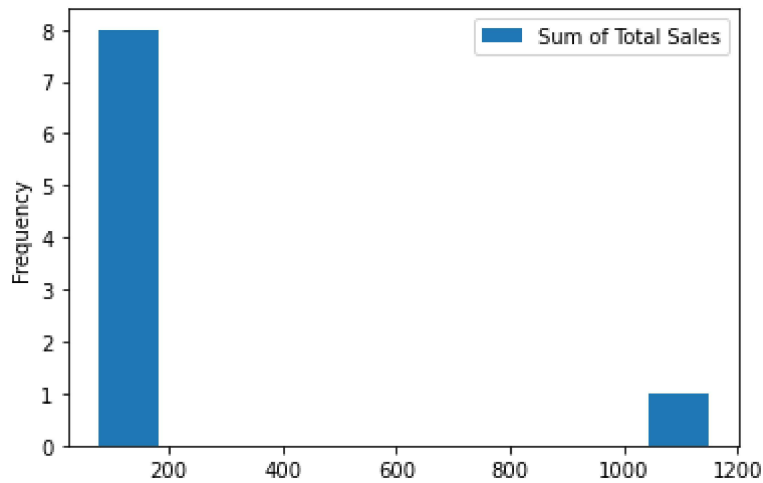
```
In [12]: data.plot.bar()
```

```
Out[12]: <AxesSubplot:>
```



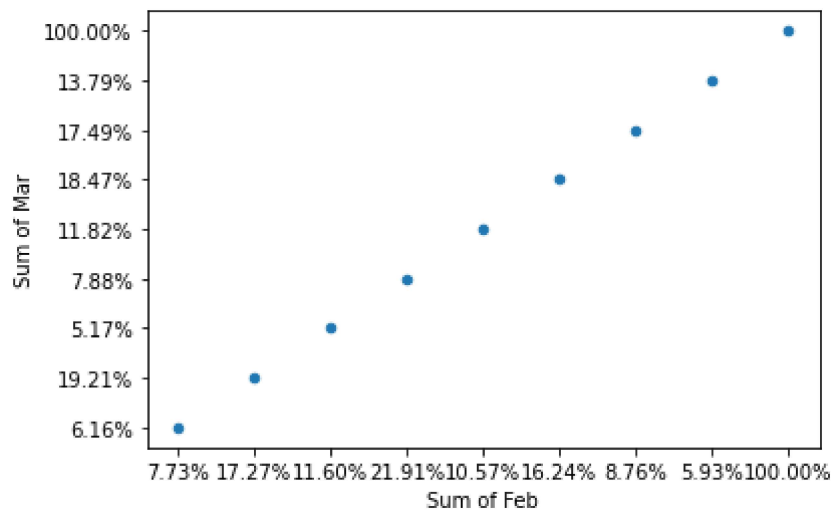
```
In [13]: data.plot.hist()
```

```
Out[13]: <AxesSubplot:ylabel='Frequency'>
```



```
In [15]: data.plot.scatter(x="Sum of Feb",y='Sum of Mar')
```

```
Out[15]: <AxesSubplot:xlabel='Sum of Feb', ylabel='Sum of Mar'>
```

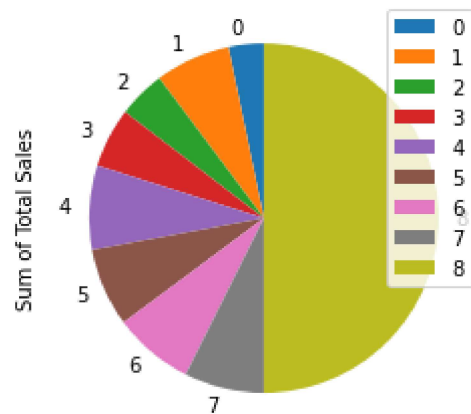


```
In [ ]: data.fillna(value=5)
```

```
In [ ]: pd.isna(data)
```

```
In [19]: data.plot.pie(y="Sum of Total Sales",startangle=90)
```

```
Out[19]: <AxesSubplot:ylabel='Sum of Total Sales'>
```



```
In [ ]:
```