Data set 4

In [1]:

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

In [2]:

```
a=pd.read_csv(r"C:\Users\user\Downloads\3_Fitness-1.csv")
```

To print top rows:

In [3]:

```
a.head()
```

Out[3]:

	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

To print Last rows:

In [7]:

```
a.tail()
```

Out[7]:

	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

Statistical Summary:

In [8]:

```
a.describe()
```

Out[8]:

	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

To print no of rows and columns

In [9]:

```
a.shape
```

Out[9]:

```
(9, 5)
```

To print no of elements

In [11]:

```
a.size
```

Out[11]:

```
45
```

Missing no of values

In [12]:

```
a.isna()
```

Out[12]:

	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 [13]:

```
conda install matplotlib
```

```
Collecting package metadata (current_repodata.json): ...working... done
Solving environment: ...working... done

# All requested packages already installed.


Note: you may need to restart the kernel to use updated packages.



==> WARNING: A newer version of conda exists. <==
  current version: 4.10.1
  latest version: 23.5.2

Please update conda by running

    $ conda update -n base -c defaults conda
```

In [14]:

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

In [16]:

```
b=a[['Sum of Jan','Sum of Feb']]
b
```

Out[16]:

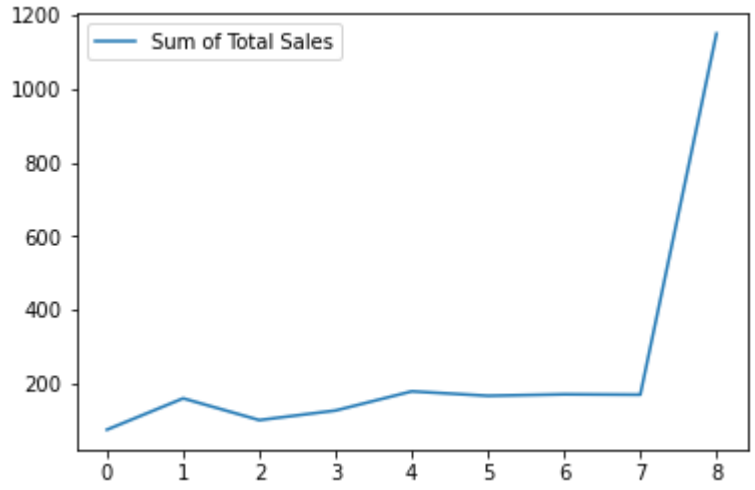
	Sum of Jan	Sum of Feb
0	5.62%	7.73%
1	4.21%	17.27%
2	9.83%	11.60%
3	2.81%	21.91%
4	25.28%	10.57%
5	8.15%	16.24%
6	18.54%	8.76%
7	25.56%	5.93%
8	100.00%	100.00%

In [17]:

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

Out[17]:

```
<AxesSubplot:>
```

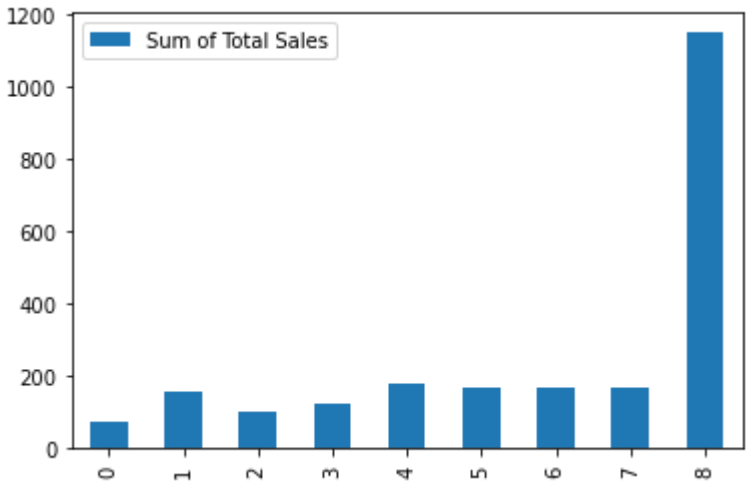


In [18]:

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

Out[18]:

<AxesSubplot:>

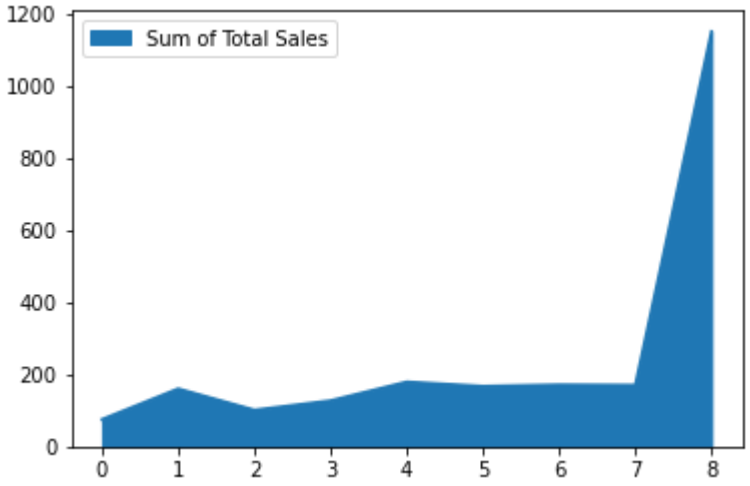


In [19]:

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

Out[19]:

<AxesSubplot:>

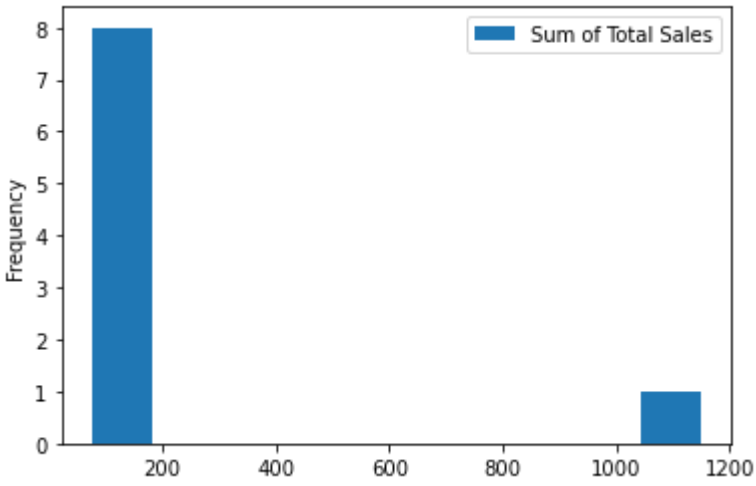


In [20]:

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

Out[20]:

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

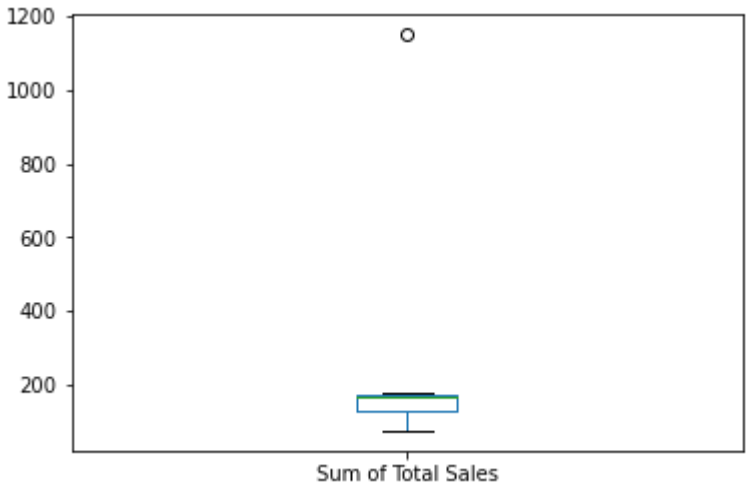


In [21]:

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

Out[21]:

```
<AxesSubplot:>
```

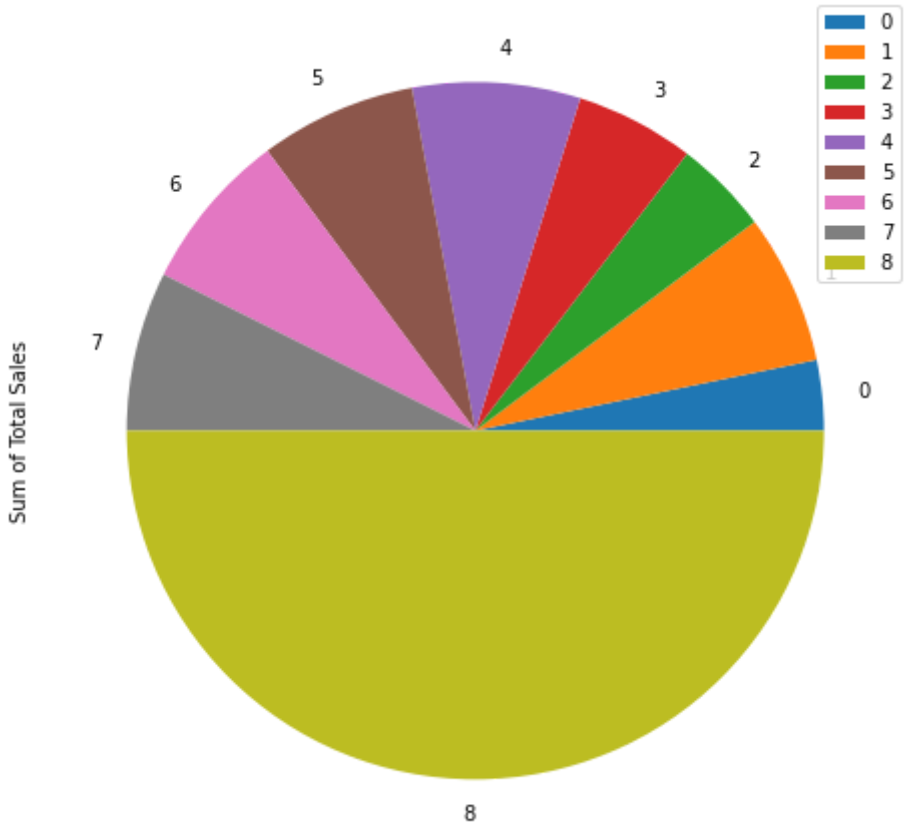


In [22]:

```
a.plot.pie(y='Sum of Total Sales',figsize=(8,8))
```

Out[22]:

```
<AxesSubplot:ylabel='Sum of Total Sales'>
```

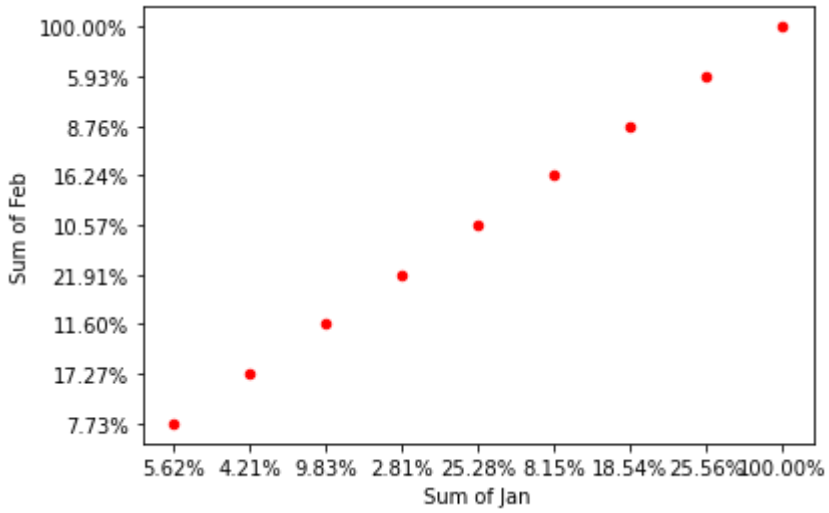


In [23]:

```
a.plot.scatter(x='Sum of Jan',y='Sum of Feb',color='r')
```

Out[23]:

```
<AxesSubplot:xlabel='Sum of Jan', ylabel='Sum of Feb'>
```



In [ ]:

```

```