22/07/23 tony5

In [103]:
```python
import numpy as np
import pandas as pd
import matplotlib.pyplot as pp
```

In [104]:
```python
x=pd.read_csv(r"C:\Users\user\Downloads\3_Fitness-1.csv")
x
```

Out[104]:

	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 [105]:
```python
x. dtypes
```

Out[105]:
```
Row Labels          object
Sum of Jan          object
Sum of Feb          object
Sum of Mar          object
Sum of Total Sales   int64
dtype: object
```

In [106]:
```python
x. dtypes
```

Out[106]:
```
Row Labels          object
Sum of Jan          object
Sum of Feb          object
Sum of Mar          object
Sum of Total Sales   int64
dtype: object
```

In [107]: `x.tail()`

Out[107]:

	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 [108]: `x.columns`

Out[108]:
```
Index(['Row Labels', 'Sum of Jan', 'Sum of Feb', 'Sum of Mar',
       'Sum of Total Sales'],
      dtype='object')
```

In [109]: `x. index`

Out[109]: `RangeIndex(start=0, stop=9, step=1)`

In [110]: `x.describe()`

Out[110]:

	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 [131]: `x["Row Labels"]`

Out[131]:
```
0              A
1              B
2              C
3              D
4              E
5              F
6              G
7              H
8      Grand Total
Name: Row Labels, dtype: object
```

In [112]: `x.iloc[0:2]`

Out[112]:

	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

In [113]: `x.loc[0:3]`

Out[113]:

	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

In [115]: `x.loc["Sum of Jan":"Sum of Feb"]`

Out[115]:

	Row Labels	Sum of Jan	Sum of Feb	Sum of Mar	Sum of Total Sales

In [116]: `x[x["Sum of Total Sales"]<=20]`

Out[116]:

	Row Labels	Sum of Jan	Sum of Feb	Sum of Mar	Sum of Total Sales

In [117]: `x.fillna(value=5)`

Out[117]:

	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 [118]: `x.dropna()`

Out[118]:

	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 [119]: `x.plot.line()`

Out[119]: `<AxesSubplot:>`
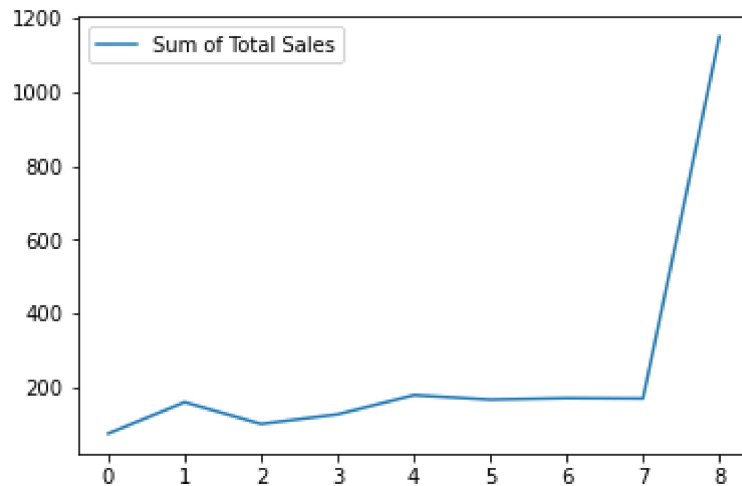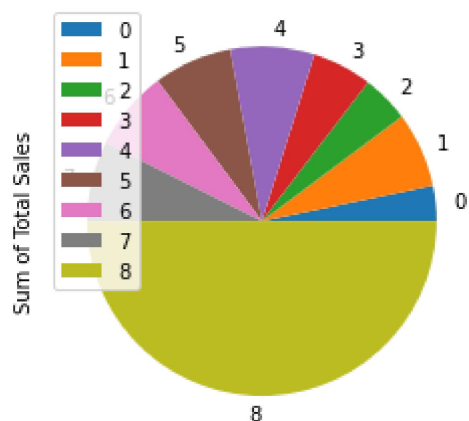
In [120]: `x.plot.bar()`

Out[120]: `<AxesSubplot:>`
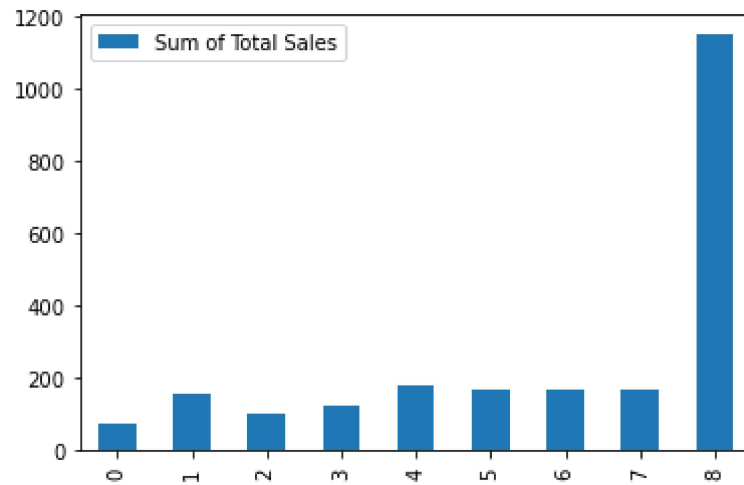
In [122]: `x.plot.hist()`

Out[122]: `<AxesSubplot:ylabel='Frequency'>`
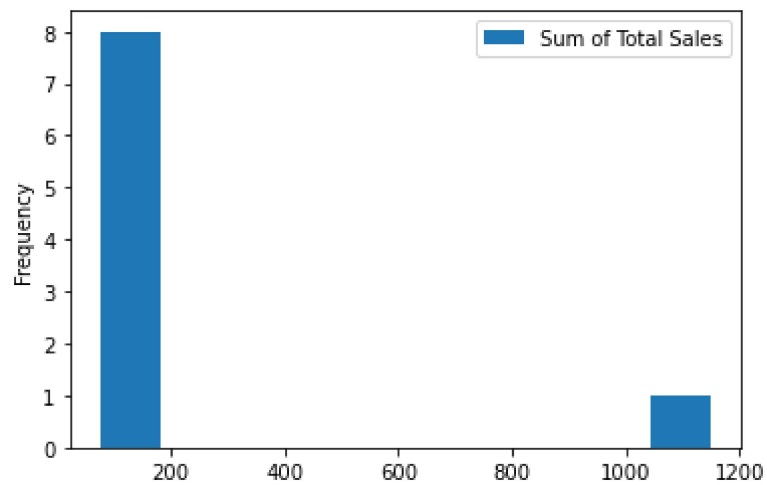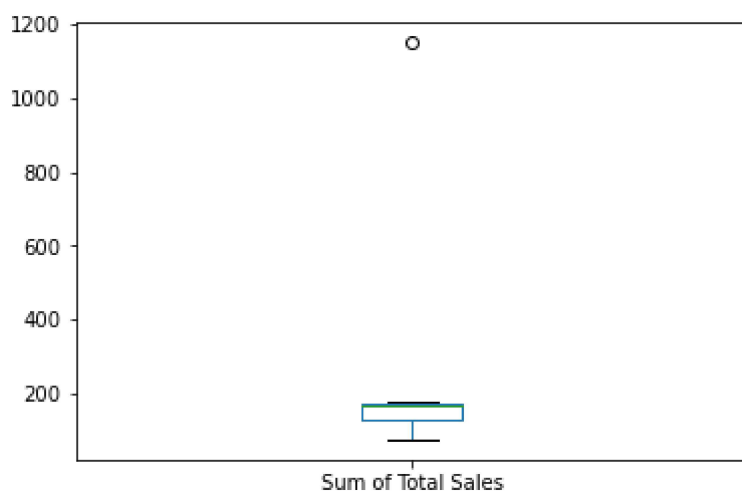
In [130]: `x.plot.pie(y='Sum of Total Sales')`

Out[130]: `<AxesSubplot:ylabel='Sum of Total Sales'>`

In [129]: `x.plot.box()`

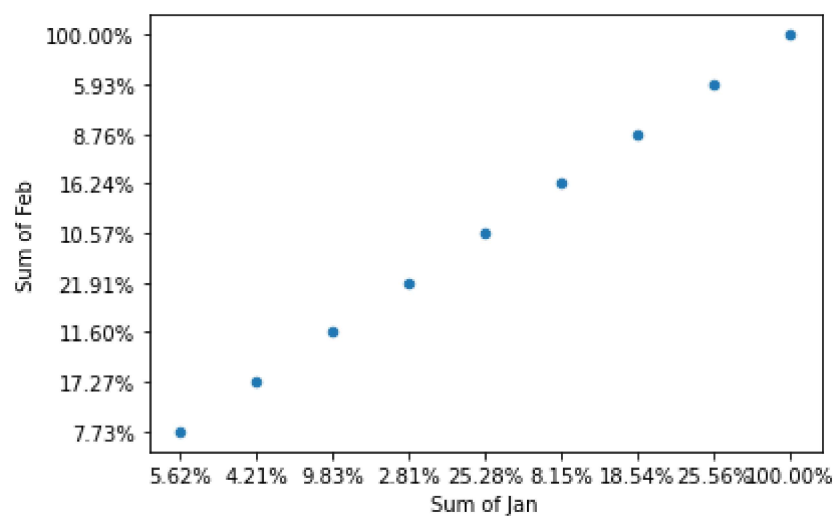Out[129]: `<AxesSubplot:>`

In [126]: `x.plot.scatter(x='Sum of Jan',y='Sum of Feb')`

Out[126]: `<AxesSubplot:xlabel='Sum of Jan', ylabel='Sum of Feb'>`

In [ ]:

In [ ]: