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

In [4]:
```
df = pd.read_csv("C:/Users/Chandrashekhar Gouda/Downloads/test (1).csv",header = N
df
```

Out[4]:

	0	1	2	3	4	5	6	7	8
0	6.0	148.0	72.0	35.0	NaN	33.6	0.627	5	1
1	1.0	85.0	66.0	29.0	NaN	26.6	0.351	31	0
2	8.0	183.0	64.0	NaN	NaN	23.3	0.672	32	1
3	1.0	89.0	66.0	23.0	94.0	28.1	0.167	21	0
4	NaN	137.0	4.0	35.0	168.0	43.1	2.288	33	1
...	...	...	...	...	...	...	...	...	...
763	1.0	11.0	76.0	48.0	18.0	32.9	0.171	63	0
764	2.0	122.0	7.0	27.0	NaN	36.8	0.340	27	0
765	5.0	121.0	72.0	23.0	112.0	26.2	0.245	3	0
766	1.0	126.0	6.0	NaN	NaN	3.1	0.349	47	1
767	1.0	93.0	7.0	31.0	NaN	3.4	0.315	23	0

768 rows × 9 columns

In [70]:
```
tm = df.value_counts().nlargest(3).keys()[2]
tm
```

Out[70]:
```
(4.0, 148.0, 6.0, 27.0, 318.0, 3.9, 0.15, 29, 1)
```

In [68]:
```
for i in range(len(tm)):
    df2[i] = df[i].fillna(tm[i])
df2
```

Out[68]:

	0	1	2	3	4	5	6	7	8
0	6.0	148.0	72.0	35.0	318.0	33.6	0.627	5	1
1	1.0	85.0	66.0	29.0	318.0	26.6	0.351	31	0
2	8.0	183.0	64.0	27.0	318.0	23.3	0.672	32	1
3	1.0	89.0	66.0	23.0	94.0	28.1	0.167	21	0
4	4.0	137.0	4.0	35.0	168.0	43.1	2.288	33	1
...	...	...	...	...	...	...	...	...	...
763	1.0	11.0	76.0	48.0	18.0	32.9	0.171	63	0
764	2.0	122.0	7.0	27.0	318.0	36.8	0.340	27	0
765	5.0	121.0	72.0	23.0	112.0	26.2	0.245	3	0
766	1.0	126.0	6.0	27.0	318.0	3.1	0.349	47	1
767	1.0	93.0	7.0	31.0	318.0	3.4	0.315	23	0

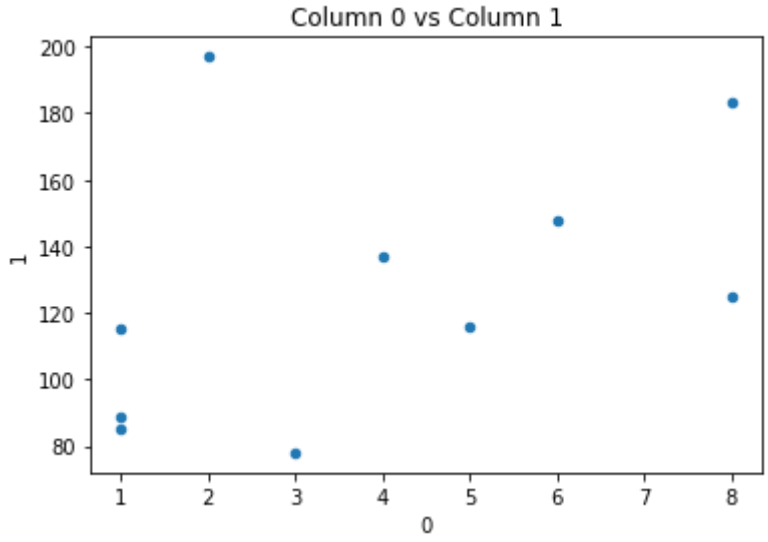
768 rows × 9 columns

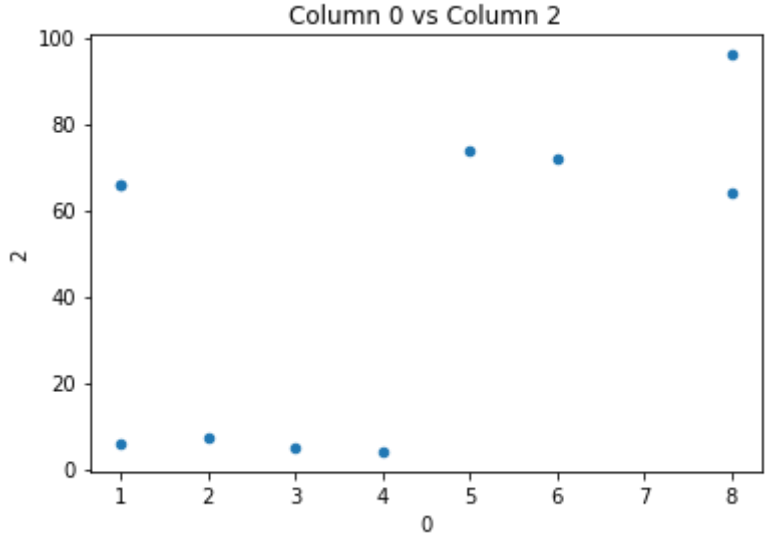
In [76]:
```
df3 = df2.iloc[:10,:5]
df3
```

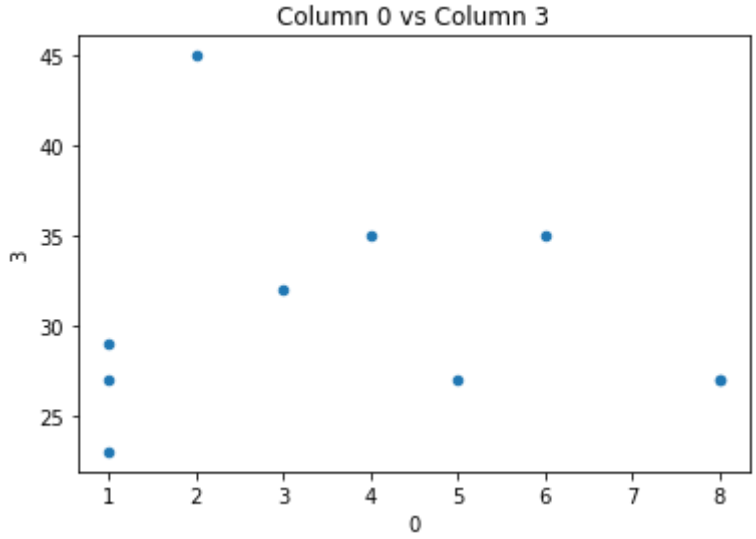
Out[76]:

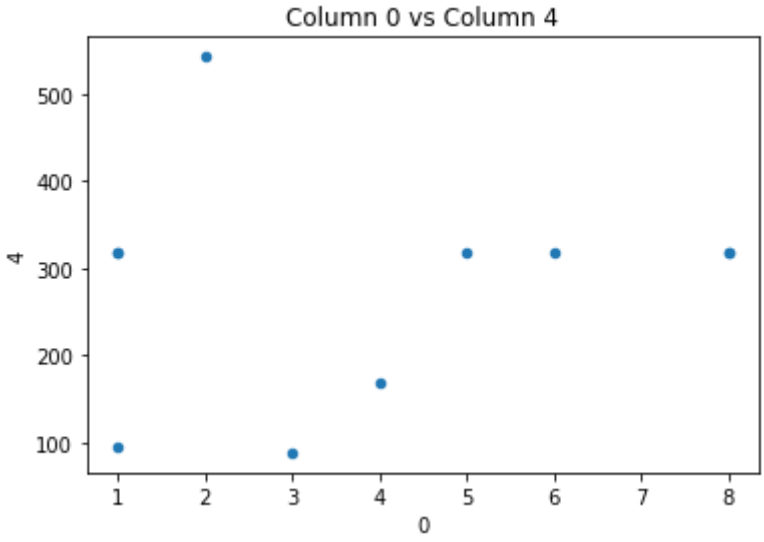
	0	1	2	3	4
0	6.0	148.0	72.0	35.0	318.0
1	1.0	85.0	66.0	29.0	318.0
2	8.0	183.0	64.0	27.0	318.0
3	1.0	89.0	66.0	23.0	94.0
4	4.0	137.0	4.0	35.0	168.0
5	5.0	116.0	74.0	27.0	318.0
6	3.0	78.0	5.0	32.0	88.0
7	1.0	115.0	6.0	27.0	318.0
8	2.0	197.0	7.0	45.0	543.0
9	8.0	125.0	96.0	27.0	318.0

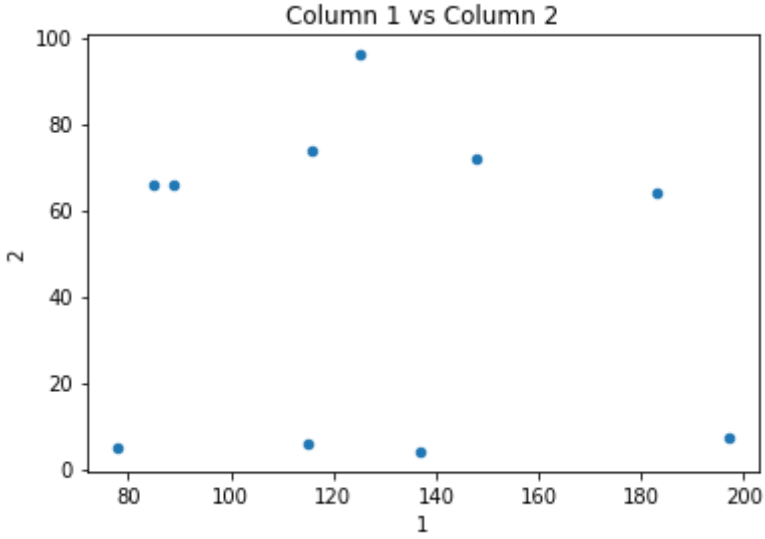
In [104…
```
for i in range(len(df3.columns)):
    for j in range(i+1,len(df3.columns)):
        if not(i==j):
            df3.plot(kind='scatter',x=i,y=j)
            plt.title('Column '+str(i)+' vs Column '+str(j))
            plt.show()
```

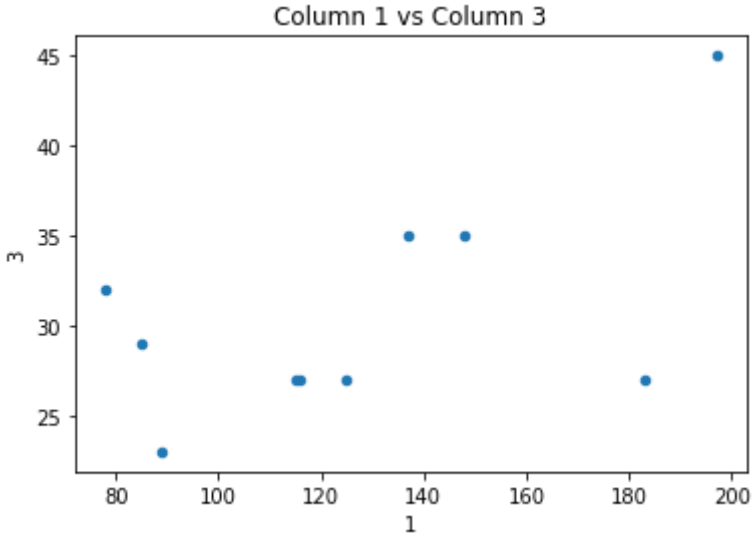

Column 0 vs Column 1
200
180
160
140
120
100
80
1
1
2
3
4
5
6
7
8
0

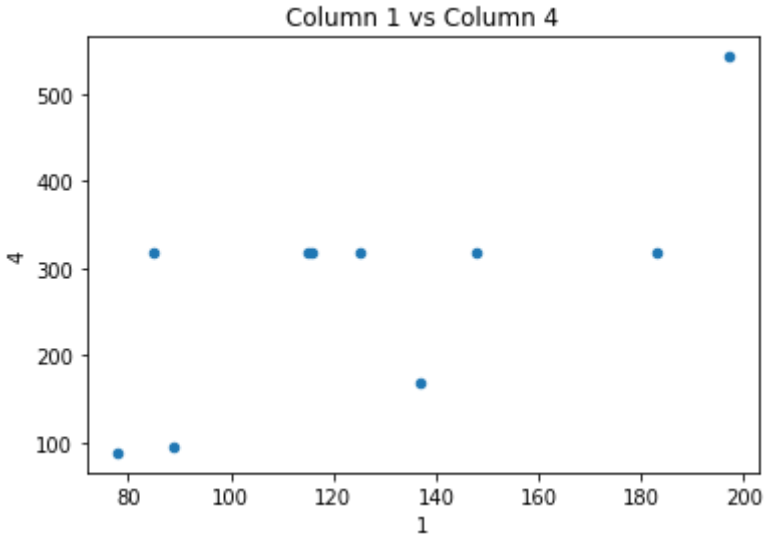

Column 0 vs Column 2
100
80
60
40
20
0
2
1
2
3
4
5
6
7
8
0

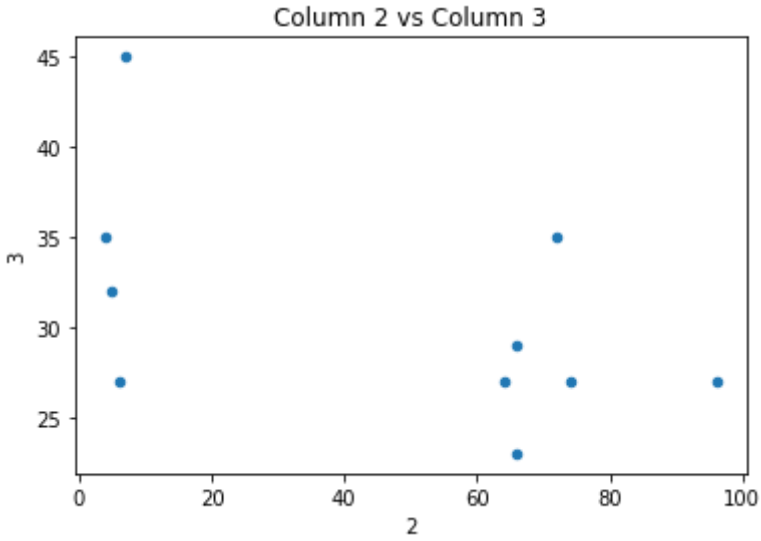

Column 0 vs Column 3
45
40
35
30
25
3
1
2
3
4
5
6
7
8
0

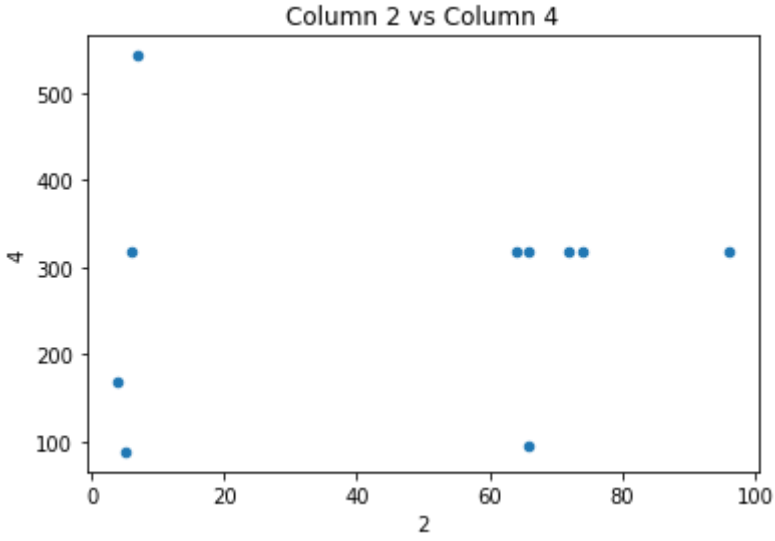

Column 0 vs Column 4
500
400
300
200
100
4
1
2
3
4
5
6
7
8
0

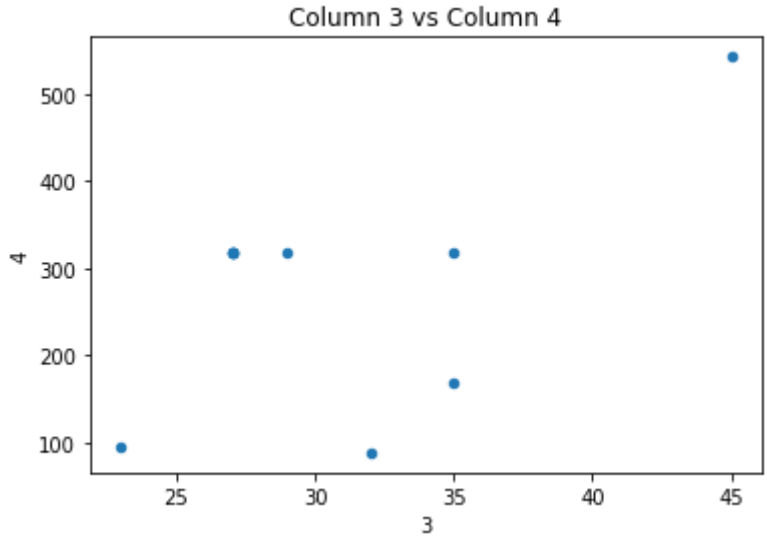

Column 1 vs Column 2
100
80
60
40
20
0
2
80
100
120
140
160
180
200
1


Column 1 vs Column 3
45
40
35
30
25
3
80
100
120
140
160
180
200
1


Column 1 vs Column 4
500
400
300
200
100
4
80
100
120
140
160
180
200
1


Column 2 vs Column 3
45
40
35
30
25
3
0
20
40
60
80
100
2


Column 2 vs Column 4
500
400
300
200
100
4
0
20
40
60
80
100
2



In [ ]: