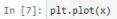
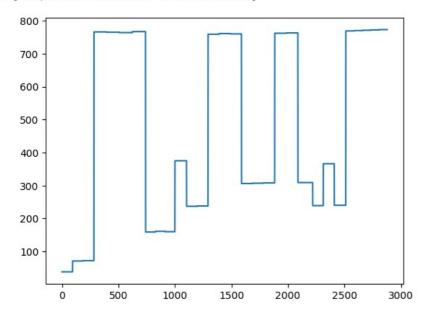
```
In [1]: import pandas as pd
In [2]: import matplotlib.pyplot as plt
In [28]: import numpy as np
In [30]: import seaborn as sns
In [4]: data=pd.read_csv("C:\DAC\DAC_PHASE1\DAC_Dataset.csv")
In [5]: x=(data['Stn Code'])
In [6]: y=(data['N02'])
In [7]: plt.plot(x)
Out[7]: [<matplotlib.lines.Line2D at 0x26f39807970>]
```

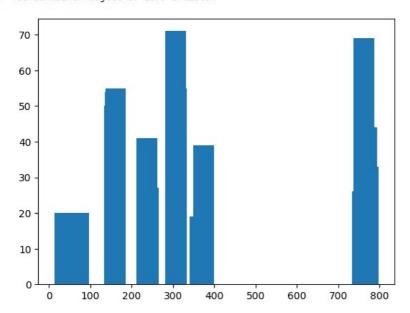


Out[7]: [<matplotlib.lines.Line2D at 0x26f39807970>]



In [19]: plt.bar(x,y,width=50)

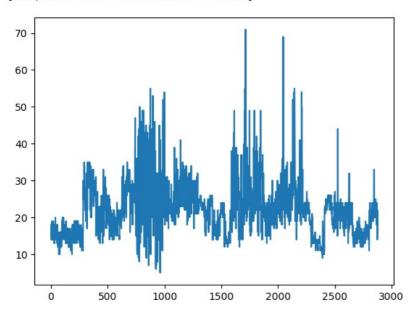
Out[19]: <BarContainer object of 2879 artists>



In [22]: xpos=np.arange(len(x))

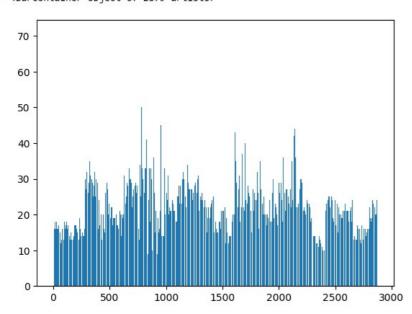
In [24]: plt.plot(xpos,y)

Out[24]: [<matplotlib.lines.Line2D at 0x26f4b435ca0>]



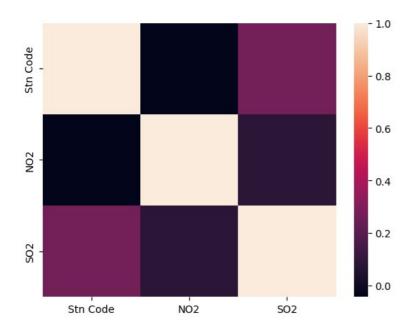
## In [27]: plt.bar(xpos,y)

Out[27]: <BarContainer object of 2879 artists>



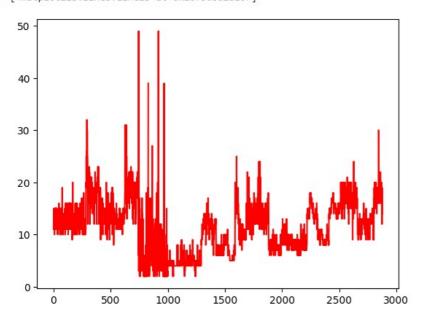
```
In [34]: heat.head()
Out[34]:
            Stn Code NO2 SO2
         0
                 38 17.0 11.0
          1
                 38 17.0 13.0
                 38 18.0 12.0
                 38 16.0 15.0
                 38 14.0 13.0
In [41]: df_corr=heat.corr()
In [43]: figure=plt.figure(figsize=(20,15))
         <Figure size 2000x1500 with 0 Axes>
In [44]: sns.heatmap(df_corr,annot=True,fmt='fig')
        plt.show()
                                                                                                                    Activate Windows
```

In [33]: heat=data[['Stn Code','NO2','SO2']]



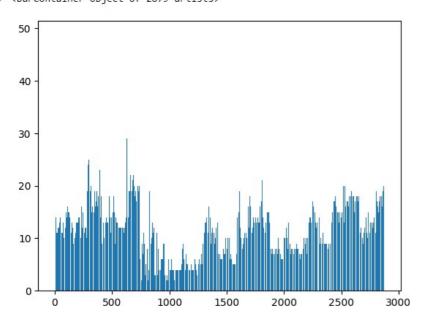
```
In [45]: sulphur=(data['S02'])
In [46]: plt.plot(xpos,sulphur,'r')
```

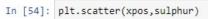
Out[46]: [<matplotlib.lines.Line2D at 0x26f5d3a2820>]



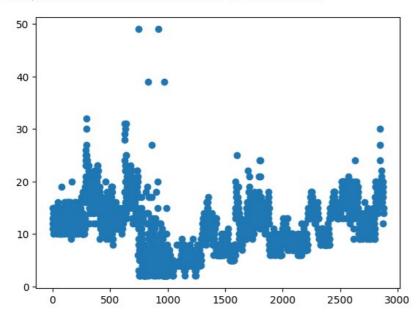
In [47]: plt.bar(xpos,sulphur)

Out[47]: <BarContainer object of 2879 artists>



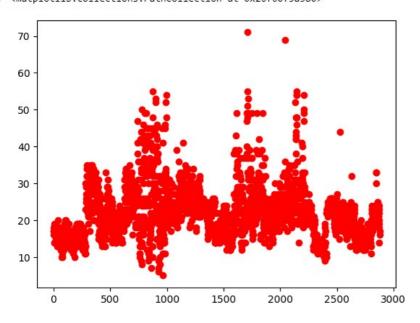


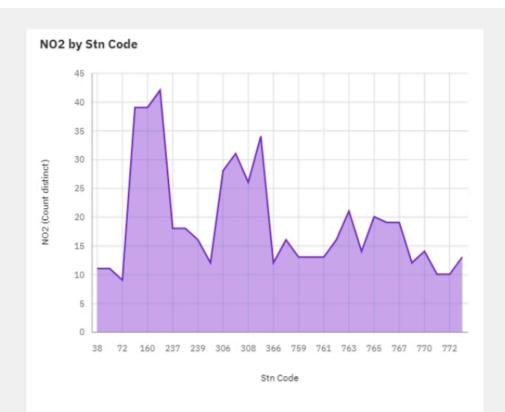
Out[54]: <matplotlib.collections.PathCollection at 0x26f5c35ff40>



In [57]: plt.scatter(xpos,nitrogen,c='r')

Out[57]: <matplotlib.collections.PathCollection at 0x26f60f5a580>

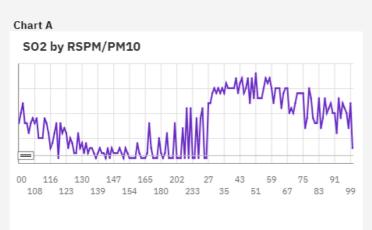




### Details

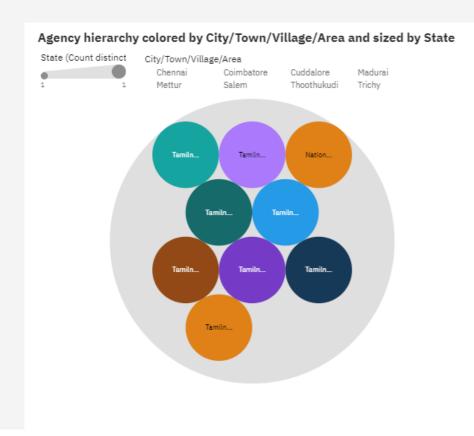
The total number of results for NO2, across all stn codes, is nearly three thousand.

309 is the most frequently occurring category of **Stn Code** with a count of 131 items with **NO2** values (4.6 % of the total).





Summary	Chart A: SO2	Chart B: RSPM/PM10	Combined
Minimum	1	1	-
Maximum	18	100	-
Chart percent of data set	100%	100%	-
Chart total	34	170	-
Difference of chart totals			-



### Details

The overall number of results for **State** is nearly three thousand.

Tamilnadu State Pollution Control Board is the most frequently occurring category of **Agency** with a count of 2619 items with **State** values (91 % of the total).

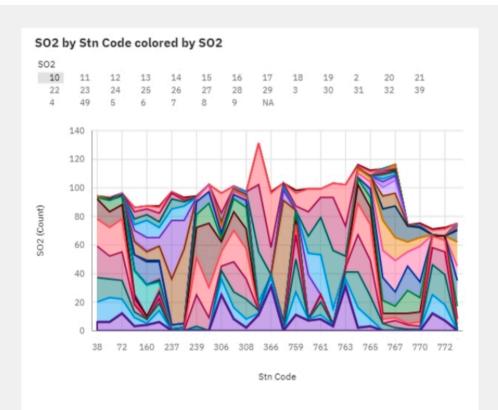
Chennai is the most frequently occurring category of City/Town/Village/Area with a count of 1000 items with State values (34.7 % of the total).

# State by Stn Code Stn Code 767 161 237 159 38 760 763 769 761 308 309 307 375 773 239 366 240 770 771 772 759 160 72 306 762 766 765 71 764

### Details

The total number of results for **State**, across all **stn codes**, is nearly three thousand.

309 is the most frequently occurring category of **Stn Code** with a count of 131 items with **State** values (4.6 % of the total).



### Details

The total number of results for SO2, across all stn codes, is nearly three thousand.

309 is the most frequently occurring category of **Stn Code** with a count of 131 items with **SO2** values (4.6 % of the total).

13 (8.6 %), 14 (8.6 %), and 12 (7.6 %) are the most frequently occurring categories of SO2 with a combined count of 717 items with SO2 values (24.9 % of the total).

