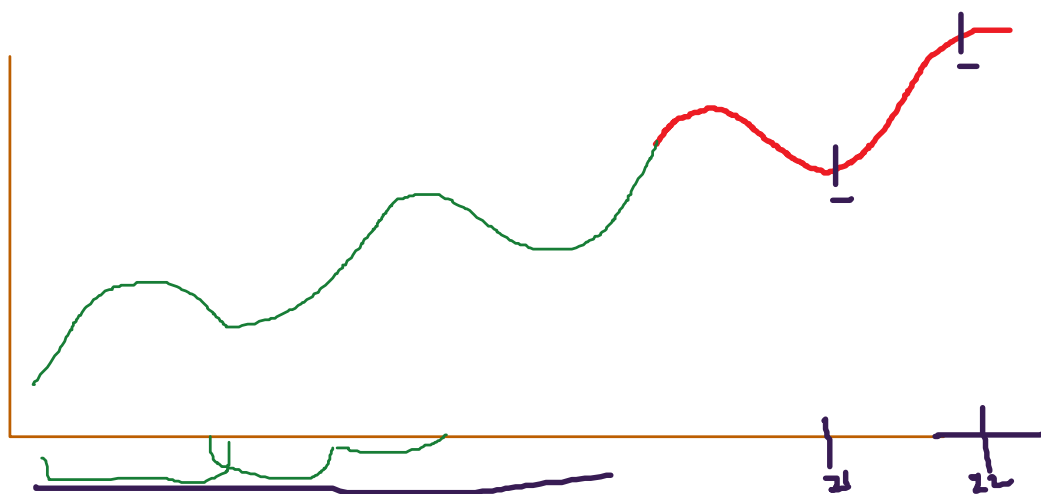
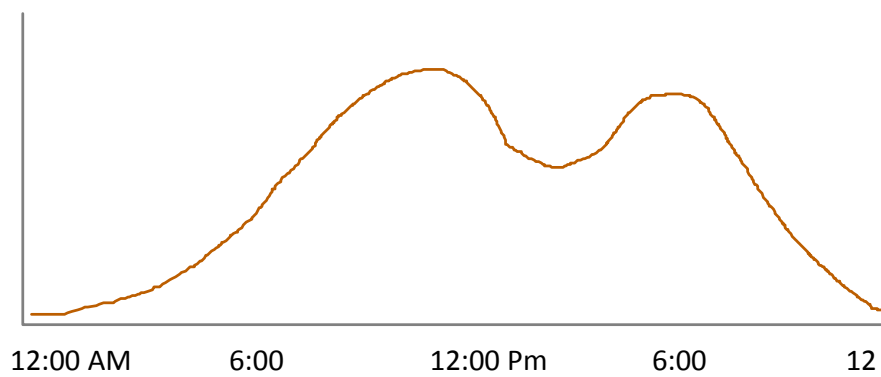
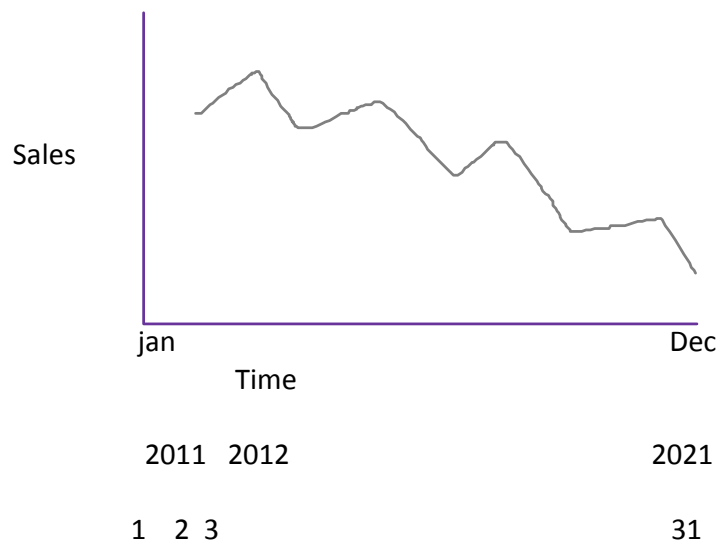


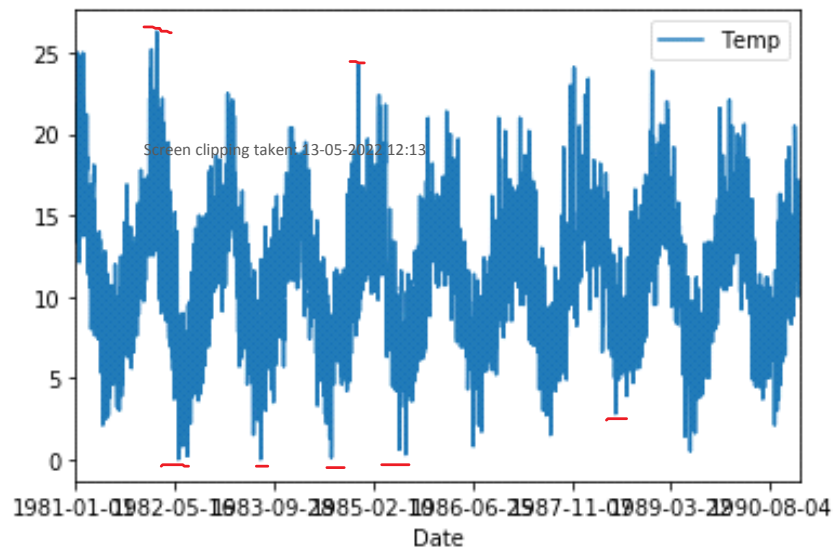
# Time series

13 May 2022 11:27

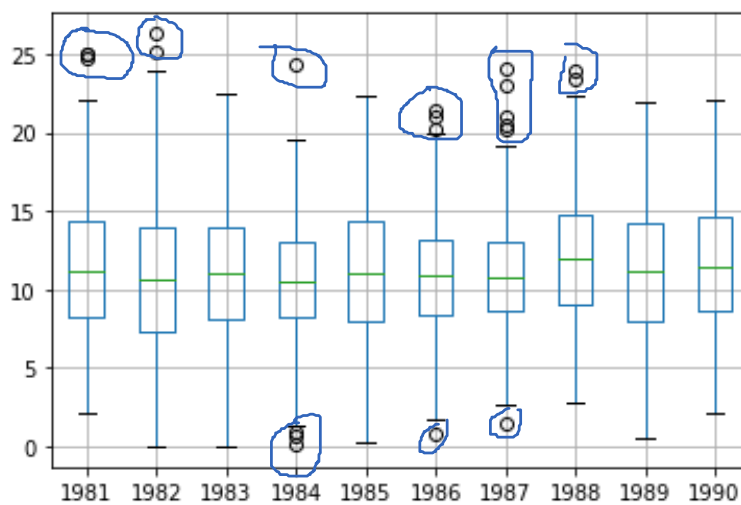
## Time series data and cross sectional data



Out[6]: <matplotlib.axes.\_subplots.AxesSubplot at 0x407cd7eb07>



Screen clipping taken: 13-05-2022 12:04



---


$$Y = Mx + C$$

$$Y_t = M.Y_{t-1} + C$$

$$Y_{t+1} = M.Y_t + C$$

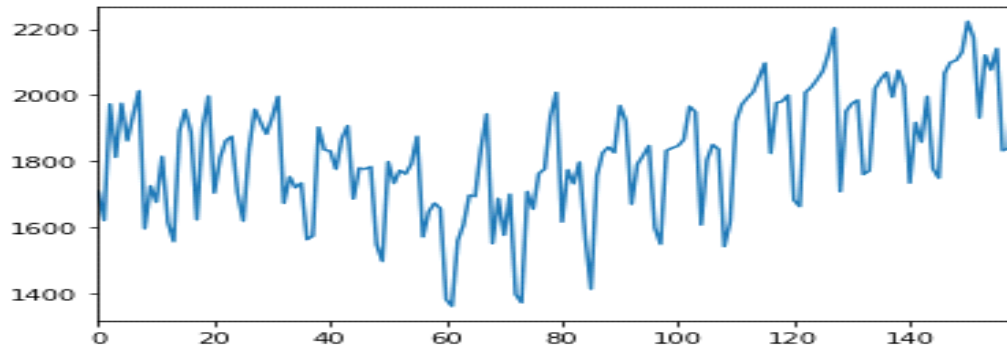
$$Y_t = M.Y_{t-2} + C$$

$$Y_t = M1.Y_{t-2} + M2.Y_{t-1} + C$$

If we check the relationship between the rows/samples then we will call it is "**Auto correlation**"



```
In [10]: Walmart.Footfalls.plot()
Out[10]: <matplotlib.axes._subplots.AxesSubplot at 0xf5b1e54eb8>
```



Screen clipping taken: 16-05-2022 12:20

```
Out[19]: <matplotlib.axes._subplots.AxesSubplot at 0x7b3acc3c8>
```

