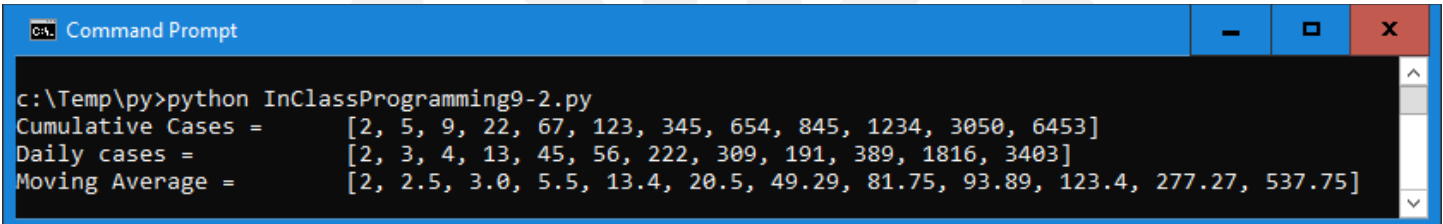


## In-Class Programming 9 (Section 2)

Create the following program: Calculate incremental values from a list of cumulative values (Covid cases) and then calculate the moving average.

- Create a list using variable `lstCumCovid` storing the following data:  
2, 5, 9, 22, 67, 123, 345, 654, 845, 1234, 3050, 6453
- Create a list object stored in variable `lstDailyCases` and initialize the first element with the first element of `lstCumCovid`.
- Create a for loop and loop over `lstCumCovid` starting at 1 (since the first value of `lstDailyCases` equals the first value of `lstCumCovid`)
- Within the loop, subtract the current cumulative value from the previous one and append it to list `lstDailyCases`
- After the loop, print out the lists `lstCumCovid` and `lstDailyCases` as shown below
- Create a list variable `lstMovAvg` and initialize it with the first element of `lstDailyCases`
- To calculate the moving average, create the same for loop as above
- Within the loop, calculate the sum of all previous values in `lstDailyCases`, divided by the number of elements up to the current iteration, then append it to list `lstMovAvg`
- After the loop, print out the `lstMovAvg` as shown below



```
c:\Temp\py>python InClassProgramming9-2.py
Cumulative Cases =      [2, 5, 9, 22, 67, 123, 345, 654, 845, 1234, 3050, 6453]
Daily cases =          [2, 3, 4, 13, 45, 56, 222, 309, 191, 389, 1816, 3403]
Moving Average =        [2, 2.5, 3.0, 5.5, 13.4, 20.5, 49.29, 81.75, 93.89, 123.4, 277.27, 537.75]
```

**Note:** Tab keys were used to align the lists (not required)

Upload the following files to Canvas:

- Screenshot of the executed code in command line/terminal window (either pasted into a Word document or as an image)
- Text files of your code named `InClassProgramming9-2.py` (put your name and section as comments at the top of file)

### Notes:

- Upload the files (screenshot(s) and Python code as text file(s) )
- Your code should contain some meaningful comments
- Your code should be well organized and formatted