Multiprocessing and Multithreading

- Python is slow comparing to other programming languages;
- We can overcome the Python speed problem using multiprocessing or multithreading
- Python script execution:
 - 1. When you type python automation_script.py in your shell you instruct your processor to create and to schedule a single process which is the smallest unit of processing
 - 2. The allocated process will start to execute the script line by line.
 - **3.** Once the script hit the EOF, the process will be terminated and its resources will be returned to the free pool to be used by other processes
- Inside a process there could be more running threads
- The problem with assigning a lot of threads to one process without special handling is what's called Race Condition
- CPython uses GIL(Global Interpreter Lock)