Assignment 1

Maintain Efficient Process Utilization on Windows

1) Get information about background running programs/current running programs

```
C:\WINDOWS\system32> Get-process

Handles  NPM(K)    PM(K)      WS(K)     CPU(s)     Id  SI ProcessName
-------  ------    -----      -----     ------     --  -- -----------
    227      15     3096      12028       0.42   8708   0 aesm_service
    323      20    18680      13204       1.67   4756   0 AnyDesk
    473      27    23628      18688       0.63  11188   1 Applicati...
    346      25     6360      10804       0.81   8664   0 Applicati...
    183      11     6632      12932       0.72   9288   0 audiodg
    316      30    13756      33136       0.31  17504   1 backgroun...
    230      14    20012      36028       0.09   3832   1 chrome
    464      28   178680     224100      79.56   4996   1 chrome
    237      15    21900      20872       0.70   7308   1 chrome
    230      14    21464      17560       0.55  10036   1 chrome
    209      13    17832      23544       0.08  11136   1 chrome
    434      39    33504      44080     120.45  12548   1 chrome
    365      22    51576      61904       4.83  13248   1 chrome
   1670      47   512504     440480     576.41  13752   1 chrome
    277      17    43472      80380       0.84  13916   1 chrome
    283      17    37108      70328       1.59  14908   1 chrome
    220      13    15844      17164       4.44  15500   1 chrome
    293      17    14128      19896       2.63  16120   1 chrome
    549      27   188432     195680      41.64  16132   1 chrome
   1832      64   115428     154556     422.38  16252   1 chrome
    228       9     6200       6900       0.23  16284   1 chrome
    244      15    21068      38684       0.22  17476   1 chrome
```

2) Get the task/program named Any desk

```
C:\WINDOWS\system32> Get-Process -Name "Anydesk"

Handles  NPM(K)    PM(K)      WS(K)     CPU(s)     Id  SI ProcessName
-------  ------    -----      -----     ------     --  -- -----------
    323      20    18680      13204       1.67   4756   0 AnyDesk
```

3) Terminate the program 4756

```
C:\WINDOWS\system32> taskkill /F /PID 4756
SUCCESS: The process with PID 4756 has been terminated.
```

4) Get multiple programs

```
C:\WINDOWS\system32> Get-Process -Name "WmiPrvSE"

Handles  NPM(K)    PM(K)     WS(K)    CPU(s)      Id  SI ProcessName
-------  ------    -----     -----    ------      --  -- -----------
    319      19    26504     34696      6.16   13304   0 WmiPrvSE
    292      13     6672     15444      1.47   13436   0 WmiPrvSE
```

5) Terminate one by one with their Id

```
C:\WINDOWS\system32> taskkill /F /PID 13304
SUCCESS: The process with PID 13304 has been terminated.
C:\WINDOWS\system32> taskkill /F /PID 13436
SUCCESS: The process with PID 13436 has been terminated.
C:\WINDOWS\system32> Get-Process -Name "WmiPrvSE"
Get-Process : Cannot find a process with the name "WmiPrvSE". Verify the process name and call the cmdlet again.
At line:1 char:1
+ Get-Process -Name "WmiPrvSE"
+ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
    + CategoryInfo          : ObjectNotFound: (WmiPrvSE:String) [Get-Process], ProcessCommandException
    + FullyQualifiedErrorId : NoProcessFoundForGivenName,Microsoft.PowerShell.Commands.GetProcessCommand
```