CSE2010-Secure coding

Name :Sai Shaket Kalivarapu
Registration number: 19BCE7547

Output screenshots:

1)

```
PS C:\Users\SaiShaket Kalivarapu> ps | sort -p ws | select -last 5

Handles  NPM(K)    PM(K)      WS(K)     CPU(s)      Id  SI ProcessName
-------  ------    -----      -----     ------      --  -- -----------
   1113      65   163336     217800     16.67   11764   1 Teams
    488      26   164844     226676     19.05   21092   1 chrome
    703      28   349304     306648      7.56   11324   0 mcshield
    508     167   348576     369992     50.33    9976   1 Teams
   1187      35   420396     426244     50.23   12648   1 chrome


PS C:\Users\SaiShaket Kalivarapu>
```

```
PS C:\Users\SaiShaket Kalivarapu> Get-Alias

CommandType     Name                                               Version    Source
-----------     ----                                               -------    ------
Alias           % -> ForEach-Object
Alias           ? -> Where-Object
Alias           ac -> Add-Content
Alias           asnp -> Add-PSSnapin
Alias           cat -> Get-Content
Alias           cd -> Set-Location
Alias           CFS -> ConvertFrom-String                          3.1.0.0    Microsoft.PowerShell.Utility
Alias           chdir -> Set-Location
Alias           clc -> Clear-Content
Alias           clear -> Clear-Host
Alias           clhy -> Clear-History
Alias           cli -> Clear-Item
Alias           clp -> Clear-ItemProperty
Alias           cls -> Clear-Host
Alias           clv -> Clear-Variable
Alias           cnsn -> Connect-PSSession
Alias           compare -> Compare-Object
Alias           copy -> Copy-Item
Alias           cp -> Copy-Item
Alias           cpi -> Copy-Item
Alias           cpp -> Copy-ItemProperty
Alias           curl -> Invoke-WebRequest
Alias           cvpa -> Convert-Path
Alias           dbp -> Disable-PSBreakpoint
Alias           del -> Remove-Item
Alias           diff -> Compare-Object
Alias           dir -> Get-ChildItem
Alias           dnsn -> Disconnect-PSSession
Alias           ebp -> Enable-PSBreakpoint
Alias           echo -> Write-Output
Alias           epal -> Export-Alias
Alias           epcsv -> Export-Csv
Alias           epsn -> Export-PSSession
Alias           erase -> Remove-Item
Alias           etsn -> Enter-PSSession
Alias           exsn -> Exit-PSSession
```

```
PS C:\Users\SaiShaket Kalivarapu> Get-Location

Path
----
C:\Users\SaiShaket Kalivarapu
```

```
PS C:\Users\SaiShaket Kalivarapu> Get-ChildItem


    Directory: C:\Users\SaiShaket Kalivarapu


Mode                LastWriteTime         Length Name
----                -------------         ------ ----
d-----        13-02-2020     20:31                .eclipse
d-----        05-10-2019     22:51                .jssc
d-----        11-11-2020     14:56                .nbi
d-----        15-02-2020     22:33                .Origin
d-----        09-01-2021     14:18                .p2
d-----        25-06-2020     13:42                .PyCharmCE2019.3
d-----        15-02-2020     22:33                .QtWebEngineProcess
d-----        24-02-2020     11:45                .ssh
d-----        14-12-2020     19:24                .thumbnails
d-----        13-02-2020     20:31                .tooling
d-----        23-06-2020     22:39                .VirtualBox
d-r---        28-03-2021     00:53                3D Objects
d-----        23-07-2020     13:12                ansel
d-----        28-01-2021     18:21                BrawlhallaReplays
d-----        05-02-2021     16:56                Cisco Packet Tracer 7.3.1
d-r---        28-03-2021     00:53                Contacts
d-r---        28-05-2021     20:52                Desktop
d-r---        28-03-2021     00:53                Documents
d-r---        30-05-2021     08:49                Downloads
d-----        11-11-2020     14:56                eclipse
d-----        26-12-2020     19:03                eclipse-workspace
d-r---        28-03-2021     00:53                Favorites
d-r---        28-03-2021     00:53                Links
d-r---        28-03-2021     00:53                Music
dar--l        31-05-2021     12:26                OneDrive
d-r---        30-05-2021     08:47                Pictures
d-----        23-04-2020     23:41                PycharmProjects
d-r---        28-03-2021     00:53                Saved Games
d-r---        28-03-2021     00:53                Searches
d-r---        28-03-2021     00:53                Videos
d-----        27-08-2020     10:11                VirtualBox VMs
-a----        29-05-2021     20:21            178 .packettracer
-a----        21-02-2019     21:30         209408 7zxa.dll
-a----        25-06-2020     16:08         315392 Default.SFX
-a----        25-06-2020     16:08         366592 Default64.SFX
-a----        02-01-2019     21:02           1056 Descript.ion
-a----        22-05-2014     22:01           6880 License.txt
-a----        03-02-2021     16:44           1203 netdata.txt
-a----        29-06-2020     11:57           3416 Order.htm
-a----        26-08-2020     15:18         626736 Rar.exe
-a----        31-05-2020     16:53         107330 Rar.txt
```

```
PS C:\Users\SaiShaket Kalivarapu> Get-Process

Handles  NPM(K)    PM(K)     WS(K)    CPU(s)      Id  SI ProcessName
-------  ------    -----     -----    ------      --  -- -----------
    322      15     4196     14180               2656   0 AppHelperCap
    623      34    44056     40912      0.86     9832   1 ApplicationFrameHost
    841      25   142800     38440    135.44     4940   0 audiodg
    235      16     4272     17308      0.20     7796   1 backgroundTaskHost
    818     442    45804     75116     40.67    16840   1 Blitz
    213      14    11652     23460      0.03    17588   1 Blitz
    578      28    44884     47140      0.69    17680   1 Blitz
    412      20    18200     40372      1.42    17732   1 Blitz
    284      25    26540     46996      0.44    17772   1 Blitz
    395      46    70324     72400      5.06    18740   1 Blitz
    253      12     4604      3764      0.08     2140   1 browserhost
   1846       9     2268      5720               5784   0 BTDevMgr
    219      13    11368     17392      0.69     1076   1 chrome
    238      15    23384     43256      2.02     1444   1 chrome
    238      16    37740     64892      3.30     2404   1 chrome
    232      14    20264     40736      1.00     4260   1 chrome
    272      16     9516     20236      0.48     4356   1 chrome
    230      15    17940     32356      0.20     4924   1 chrome
    287      18   152744    174128      6.31    11128   1 chrome
   1193      37   568524    573680     60.30    12648   1 chrome
   1770      59   106744    175612    104.42    12692   1 chrome
    209      13    15200     25944      0.20    12904   1 chrome
    327      21    22684     40304     16.48    16628   1 chrome
    364      19    64732    106272     11.98    17168   1 chrome
    287      19    82324    128584      4.80    18100   1 chrome
    221       9     2124      7084      0.14    18532   1 chrome
    234      15    20424     42944      0.13    20420   1 chrome
    332      20    47976     89700      5.56    21068   1 chrome
    514      28   172468    219204     33.48    21092   1 chrome
     70       5     2164      3512      0.02    11148   1 cmd
     70       5     2164      3508      0.06    16312   1 cmd
    139       7     1496      8808      0.08    20912   1 CompPkgSrv
    125       9     6684      7112      0.06     1596   1 conhost
    273      14     4224     16568      1.98     3068   1 conhost
    101       7     6220      4552               5300   0 conhost
    139       9     6556      6252               7404   0 conhost
    101       7     6224      4800               8964   0 conhost
    104       7     6324      1092      0.09    12800   1 conhost
    125       9     6688      7120      0.09    16704   1 conhost
    104       7     6316      5024      0.06    19260   1 conhost
    107       8     1404      5268      0.03    10596   1 crashpad_handler
    114       8     1492      5388      0.03    15576   1 crashpad_handler
```

2)

```
1   import os
2   files = [f for f in os.listdir('.') if os.path.isfile(f)]
3   print(files)
```

3)

```
1   import os
2   files = [f for f in os.listdir('.') if not os.path.isfile(f)]
3   print(files)
```
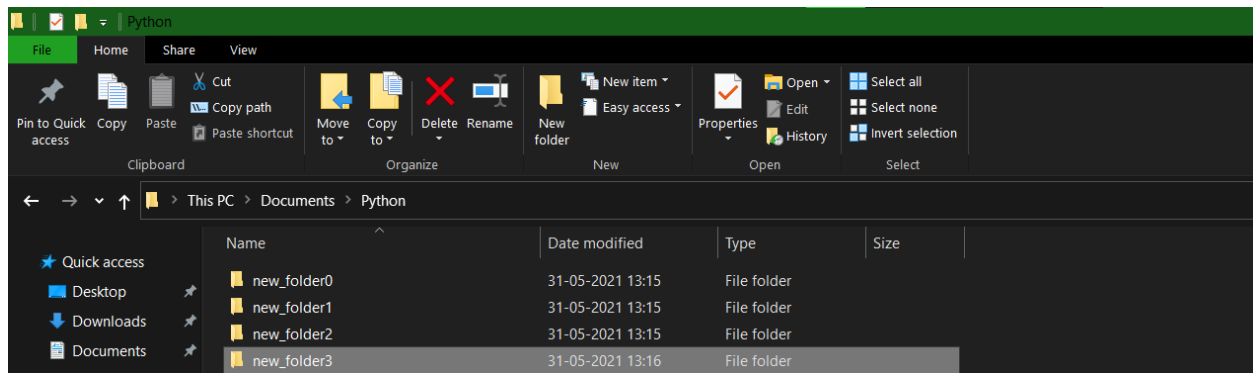
4)

```
1   import os
2   top = os.getcwd()
3   files = [f for f in os.walk(top, topdown=True)]
4   print(files)
```

5)

```
>>> import os
>>> current_directory = os.getcwd()
>>> for i in range(4):
...     final_directory = os.path.join(current_directory, f'new_folder{i}')
...     if not os.path.exists(final_directory):
...         os.makedirs(final_directory)
...
```

Output-

Result: four folders have been created

6)

```
>>> import os
>>> import sys
>>> a = open("output3.txt", "w")
>>> top="C:/"
>>> for path, subdirs, files in os.walk(top):
...     for filename in files:
...             f = os.path.join(path, filename)
...             a.write(str(f) + os.linesep)
...
```