LAB-6

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Find the first five processes using the most memory

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

Handles  NPM(K)    PM(K)     WS(K)    CPU(s)    Id  SI ProcessName
-------  ------    -----     -----    ------    --  -- -----------
    391      97   186812    216700    293.86  2236  16 Teams
   1662      93   249688    240100    718.02 10264  16 Teams
      0       0     1080    296392            2800   0 Memory Compression
    571      30   337000    356264      4.95  7884  16 msedge
    493     170   372568    360436    914.86 10968  16 Teams
```

Write a python script to get all the file names in the current directory

```
Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec  7 2020, 17:08:21) [MSC v.1927 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import os
>>> from os import listdir
>>> from os.path import isfile, join
>>> mypath=os.getcwd()
>>> files = [f for f in listdir(mypath) if isfile(join(mypath, f))]
>>> print(files)
['lab3.pdf', 'lab4.pdf', 'LBA2.pdf']
```

Write a python script to get all the directory names in the current directory

```
Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec  7 2020, 17:08:21) [MSC v.1927 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import os
>>> mypath=os.getcwd()
>>> print([ dir for dir in os.listdir(mypath) if os.path.isdir(os.path.join(mypath, dir)) ])
['task1']
>>>
```

Write a python script to get all the file name, directory and all the subdirectory names (recursively) in the current drive and write it to a text file.

```
>>> import os
>>> import pathlib
>>> drive = pathlib.Path.home().drive
>>> path = drive+"\\"
>>> with open("file.txt", "w", encoding="utf-8") as filewrite:
...     for r, d, f in os.walk(path):
...         for file in f:
...             filewrite.write(f"{r + file}\n")
...
```

```
C:\.log
C:\hiberfil.sys
C:\pagefile.sys
C:\swapfile.sys
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I00ZWQU.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I07CESA.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I1MPDRA.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I26HRRB.rmski
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I2ASRUZ.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I2DV05U.lnk
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I2GZOSD
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I2KGSQ0.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I2VCKPP.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I3918FH.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I3K5ZMO.lnk
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I3KR1EF.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I3OVQI0.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I3UXMDI.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I3YPWUT.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I41XB0Q.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I4212LD.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I4RD3JU.lnk
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I50IMC5.py
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I51A5SZ.png
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I5409KI.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I5B9S9P.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I6L3YN9.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I6MQBSV.png
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I7ELZLU.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I7RCJQ6.png
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I7UFNV7.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I831U6M.png
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I86XPME.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I8NI2NC.txt
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I8P8A5F.png
C:\$Recycle.Bin\S-1-5-21-11575468-3212704765-280030192-1031$I8UTEJC.txt
```

Write a python script which creates four new files in the current directory using Powershell

```
Type "help", "copyright", "credits" or "license" for more info
>>> import os
>>> path = os.getcwd()
>>> for x in range(1,5):
...     with open(path+"\{}.txt".format(x), "w") as f:
...         f.write("\n this my files ")
...
16
16
```

Name	Status	Date modified	Type	Size
task1	⊘	08-03-2021 19:39	File folder	
1	⊘	09-03-2021 08:58	Text Document	1 KB
2	⊘	09-03-2021 08:58	Text Document	1 KB
3	⊘	09-03-2021 08:58	Text Document	1 KB
4	⊘	09-03-2021 08:58	Text Document	1 KB