

LAB-06

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REG_ID:-18BCD7058

SLOT:-L39+L40

- Write a Python script to get all the filenames in the current directory

1.py

```
import os
for root,dirs,files in os.walk("."):
    for filename in files:
        print(filename)

stop=input("Close this window to exit")
```

```
PS C:\18BCD7058> python 1.py
1.py
Client.java
DateClient.class
DateClient.java
DateServer.class
DateServer.java
file_2.py
LAB5_MultiClient.class
LAB5_MultiClient.java
MultiServer.class
MultiServer.java
Server.java
ServerClientThread.class
ServerClientThread.java
UDP_Client.class
UDP_Client.java
UDP_Server.class
UDP_Server.java
Close this window to exit
```

```
C:\18BCD7058>python 1.py
1.py
Client.java
DateClient.class
DateClient.java
DateServer.class
DateServer.java
LAB5_MultiClient.class
LAB5_MultiClient.java
MultiServer.class
MultiServer.java
Server.java
ServerClientThread.class
ServerClientThread.java
UDP_Client.class
UDP_Client.java
UDP_Server.class
UDP_Server.java
Close this window to exit
```

- Write a Python script to get all the directory names in the current directory

file_2.py

```
import os
directory_contents=os.listdir(".")
for item in directory_contents:
    if os.path.isdir(item):
        print(item)
```

```
stop=input("Press Enter to exit 18BCD7058")
```

```
C:\WINDOWS\py.exe
$RECYCLE.BIN
.git
Git
Program Files
System Volume Information
Telegram Desktop
Temp
Press Enter to exit 18BCD7058
```

```
PS C:\> cd G:
PS G:\> python file_2.py
$RECYCLE.BIN
.git
Git
Program Files
System Volume Information
Telegram Desktop
Temp
Press Enter to exit 18BCD7058
```

- Write a Python script to get all the directory and subdirectory names in the current directory

file_3.py

```
import os
for root, dirs, files in os.walk("."):
    for name in dirs:
        print (os.path.join(root, name))

stop=input("Press Enter to exit 18BCD7058")
```

```
.\$RECYCLE.BIN
.\.git
.\Git
.\Program Files
.\System Volume Information
.\Telegram Desktop
.\Temp
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1004
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R3B2LH7
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git\hooks
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git\info
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git\objects
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git\refs
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git\objects\info
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git\objects\pack
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git\refs\heads
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git\refs\tags
.\.git\hooks
.\.git\info
.\.git\objects
.\.git\refs
.\.git\objects\info
.\.git\objects\pack
.\.git\refs\heads
.\.git\refs\tags
.\Git\.git
.\Git\bin
```

```
PS G:\> python file_3.py
.\$RECYCLE.BIN
.\.git
.\Git
.\Program Files
.\System Volume Information
.\Telegram Desktop
.\Temp
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1004
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R3B2LH7
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git\hooks
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git\info
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git\objects
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git\refs
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git\objects\info
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git\objects\pack
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git\refs\heads
.\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001\$R8ZLZ4P\.git\refs\tags
.\.git\hooks
.\.git\info
.\.git\objects
.\.git\refs
.\.git\objects\info
.\.git\objects\pack
.\.git\refs\heads
.\.git\refs\tags
.\Git\.git
.\Git\bin
.\Git\cmd
.\Git\dev
.\Git\etc
.\Git\mingw64
.\Git\tmp
.\Git\usr
.\Git\.git\hooks
.\Git\.git\info
```

```

.\Git\.git\objects
.\Git\.git\refs
.\Git\.git\objects\info
.\Git\.git\objects\pack
.\Git\.git\refs\heads
.\Git\.git\refs\tags
.\Git\dev\mqueue
.\Git\dev\shm
.\Git\etc\pkcs11
.\Git\etc\pki
.\Git\etc\profile.d
.\Git\etc\ssh
.\Git\etc\pki\ca-trust
.\Git\etc\pki\ca-trust\extracted
.\Git\etc\pki\ca-trust\extracted\java
.\Git\etc\pki\ca-trust\extracted\openssl
.\Git\etc\pki\ca-trust\extracted\pem
.\Git\mingw64\bin
.\Git\mingw64\doc
.\Git\mingw64\etc
.\Git\mingw64\lib
.\Git\mingw64\libexec
.\Git\mingw64\share
.\Git\mingw64\ssl
.\Git\mingw64\doc\git-credential-manager
.\Git\mingw64\doc\git-credential-manager-core
.\Git\mingw64\etc\pki
.\Git\mingw64\etc\pki\ca-trust
.\Git\mingw64\etc\pki\ca-trust\extracted
.\Git\mingw64\etc\pki\ca-trust\extracted\java
.\Git\mingw64\etc\pki\ca-trust\extracted\openssl
.\Git\mingw64\etc\pki\ca-trust\extracted\pem
.\Git\mingw64\lib\cmake
.\Git\mingw64\lib\dde1.4
.\Git\mingw64\lib\engines-1_1
.\Git\mingw64\lib\itcl4.2.0
.\Git\mingw64\lib\p11-kit
.\Git\mingw64\lib\reg1.3
.\Git\mingw64\lib\sqlite3.30.1.2
.\Git\mingw64\lib\tcl8
.\Git\mingw64\lib\tcl8.6
.\Git\mingw64\lib\thread2.8.5
.\Git\mingw64\lib\tk8.6
.\Git\mingw64\lib\cmake\c-ares
.\Git\mingw64\lib\tcl8\8.4
.\Git\mingw64\lib\tcl8\8.5
.\Git\mingw64\lib\tcl8\8.6
.\Git\mingw64\lib\tcl8\8.4\platform

```

- Write a Python script to get all the filename,directory and all the subdirectory names(recursively) in the current directory

file_4.py

```
import os
```

```
for root, dirs, files in os.walk("."):
    print(dirs, files)
```

```
stop=input("Press Enter to exit 18BCD7058")
```

```

PS G:\> python file_4.py
['$RECYCLE.BIN', '.git', 'Git', 'Program Files', 'System Volume Information', 'Telegram Desktop', 'Temp'] ['file_2.py',
'file_3.py', 'file_4.py', 'Me.java']
['S-1-5-21-1291201229-3307081001-864557887-1001', 'S-1-5-21-1291201229-3307081001-864557887-1004'] []
['$R3B2LH7', '$R8ZLZ4P'] ['$I3B2LH7', '$I8ZLZ4P', '$I9J92TV.lnk', '$R9J92TV.lnk', 'desktop.ini']
[] []
['.git'] []
['hooks', 'info', 'objects', 'refs'] ['config', 'description', 'HEAD', 'sample.java']
[] ['applypatch-msg.sample', 'commit-msg.sample', 'fsmonitor-watchman.sample', 'post-update.sample', 'pre-applypatch.sam
ple', 'pre-commit.sample', 'pre-merge-commit.sample', 'pre-push.sample', 'pre-rebase.sample', 'pre-receive.sample', 'pre
pare-commit-msg.sample', 'update.sample']
[] ['exclude']
['info', 'pack'] []
[] []
[] []
['heads', 'tags'] []
[] []
[] []
['hooks', 'info', 'objects', 'refs'] ['config', 'description', 'HEAD']
[] ['applypatch-msg.sample', 'commit-msg.sample', 'fsmonitor-watchman.sample', 'post-update.sample', 'pre-applypatch.sam
ple', 'pre-commit.sample', 'pre-merge-commit.sample', 'pre-push.sample', 'pre-rebase.sample', 'pre-receive.sample', 'pre
pare-commit-msg.sample', 'update.sample']
[] ['exclude']
['info', 'pack'] []
[] []
[] []
['heads', 'tags'] []
[] []
[] []
['.git', 'bin', 'cmd', 'dev', 'etc', 'mingw64', 'tmp', 'usr'] ['git-bash.exe', 'git-cmd.exe', 'LICENSE.txt', 'ReleaseNot
es.html', 'unins000.dat', 'unins000.exe', 'unins000.msg']
['hooks', 'info', 'objects', 'refs'] ['config', 'description', 'HEAD']
[] ['applypatch-msg.sample', 'commit-msg.sample', 'fsmonitor-watchman.sample', 'post-update.sample', 'pre-applypatch.sam
ple', 'pre-commit.sample', 'pre-merge-commit.sample', 'pre-push.sample', 'pre-rebase.sample', 'pre-receive.sample', 'pre
pare-commit-msg.sample', 'update.sample']
[] ['exclude']
['info', 'pack'] []
[] []
[] []
['heads', 'tags'] []
[] []

```

Select C:\WINDOWS\py.exe

```

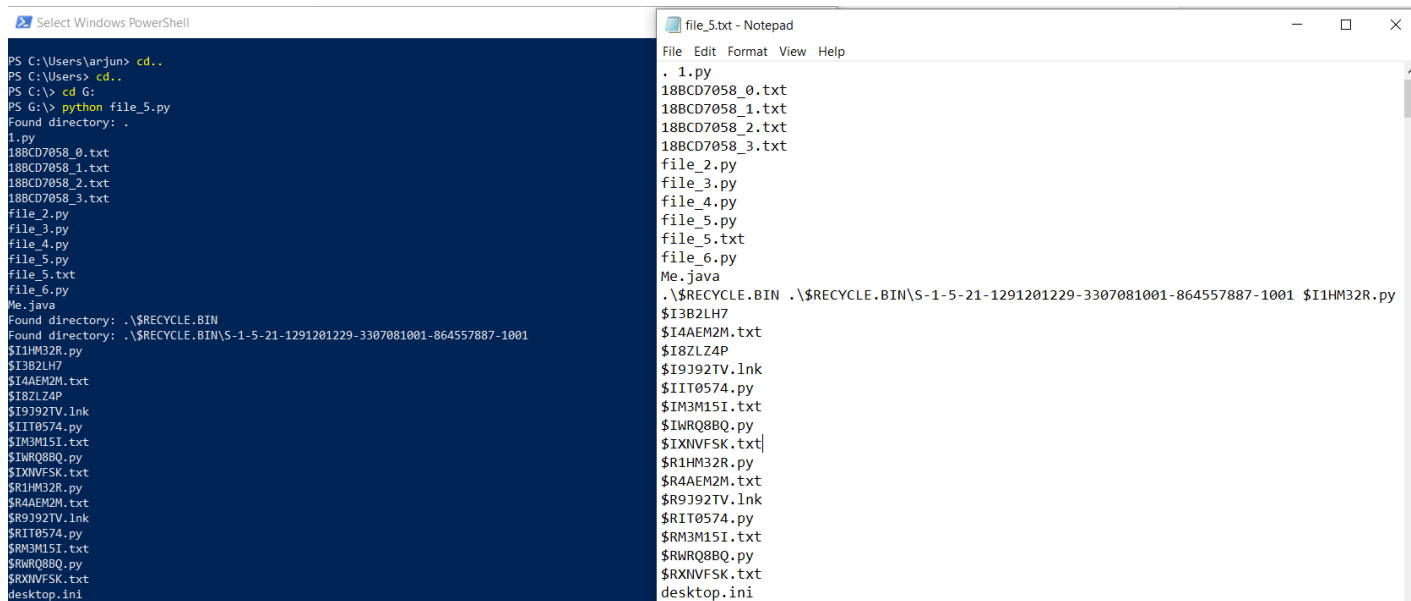
['$RECYCLE.BIN', '.git', 'Git', 'Program Files', 'System Volume Information', 'Telegram Desktop', 'Temp'] ['file_2.py',
'file_3.py', 'file_4.py', 'Me.java']
['S-1-5-21-1291201229-3307081001-864557887-1001', 'S-1-5-21-1291201229-3307081001-864557887-1004'] []
['$R3B2LH7', '$R8ZLZ4P'] ['$I3B2LH7', '$I8ZLZ4P', '$I9J92TV.lnk', '$R9J92TV.lnk', 'desktop.ini']
[] []
['.git'] []
['hooks', 'info', 'objects', 'refs'] ['config', 'description', 'HEAD', 'sample.java']
[] ['applypatch-msg.sample', 'commit-msg.sample', 'fsmonitor-watchman.sample', 'post-update.sample', 'pre-applypatch.sam
ple', 'pre-commit.sample', 'pre-merge-commit.sample', 'pre-push.sample', 'pre-rebase.sample', 'pre-receive.sample', 'pre
pare-commit-msg.sample', 'update.sample']
[] ['exclude']
['info', 'pack'] []
[] []
[] []
['heads', 'tags'] []
[] []
[] []
['hooks', 'info', 'objects', 'refs'] ['config', 'description', 'HEAD']
[] ['applypatch-msg.sample', 'commit-msg.sample', 'fsmonitor-watchman.sample', 'post-update.sample', 'pre-applypatch.sam
ple', 'pre-commit.sample', 'pre-merge-commit.sample', 'pre-push.sample', 'pre-rebase.sample', 'pre-receive.sample', 'pre
pare-commit-msg.sample', 'update.sample']
[] ['exclude']
['info', 'pack'] []
[] []
[] []
['heads', 'tags'] []
[] []
[] []
['.git', 'bin', 'cmd', 'dev', 'etc', 'mingw64', 'tmp', 'usr'] ['git-bash.exe', 'git-cmd.exe', 'LICENSE.txt', 'ReleaseNot
es.html', 'unins000.dat', 'unins000.exe', 'unins000.msg']

```


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

file_5.py

```
import os
f= open("file_5.txt","w+")
for dirpath, dirnames, files in os.walk('.'):
    print(f'Found directory: {dirpath}')
    f.write(dirpath+" ")
    for file_name in files:
        print(file_name)
        f.write(file_name+"\n")
f.close()
```



The screenshot shows two windows side-by-side. The left window is a Windows PowerShell terminal with a dark blue background. It shows the execution of the Python script 'file_5.py' from the 'G:' drive. The output lists the current directory and its contents, including subdirectories like '\$RECYCLE.BIN' and files like '1.py', '18BCD7058_0.txt', etc. The right window is a Notepad application titled 'file_5.txt - Notepad'. It displays the content of the file created by the script, which is a list of file and directory names, each on a new line, separated by spaces and newlines as specified in the script.

```
PS C:\Users\arjun> cd..
PS C:\Users> cd..
PS C:\> cd G:
PS G:\> python file_5.py
Found directory: .
1.py
18BCD7058_0.txt
18BCD7058_1.txt
18BCD7058_2.txt
18BCD7058_3.txt
file_2.py
file_3.py
file_4.py
file_5.py
file_5.txt
file_6.py
Me.java
Found directory: .\$RECYCLE.BIN
Found directory: .\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001
$I1HM32R.py
$I3B2LH7
$I4AEM2M.txt
$I8ZLZ4P
$I9J92TV.lnk
$IIT0574.py
$IIM3M15I.txt
$IIMQ8BQ.py
$IIXNVFSK.txt
$I1HM32R.py
$I4AEM2M.txt
$I9J92TV.lnk
$IIT0574.py
$IIM3M15I.txt
$IIMQ8BQ.py
$IIXNVFSK.txt
desktop.ini

file_5.txt - Notepad
File Edit Format View Help
. 1.py
18BCD7058_0.txt
18BCD7058_1.txt
18BCD7058_2.txt
18BCD7058_3.txt
file_2.py
file_3.py
file_4.py
file_5.py
file_5.txt
file_6.py
Me.java
.\$RECYCLE.BIN .\$RECYCLE.BIN\S-1-5-21-1291201229-3307081001-864557887-1001 $I1HM32R.py
$I3B2LH7
$I4AEM2M.txt
$I8ZLZ4P
$I9J92TV.lnk
$IIT0574.py
$IIM3M15I.txt
$IIMQ8BQ.py
$IIXNVFSK.txt
$I1HM32R.py
$I4AEM2M.txt
$I9J92TV.lnk
$IIT0574.py
$IIM3M15I.txt
$IIMQ8BQ.py
$IIXNVFSK.txt
desktop.ini
```

- Write a Python script which creates four new files in the current directory using Powershell.

file_6.py

```
import subprocess
process = subprocess.Popen(["powershell","New-Item
```

```
18BCD7058_0.txt,18BCD7058_1.txt,18BCD7058_2.txt,18BCD7058_3.txt"
],stdout=subprocess.PIPE)
result=process.communicate()[0]
print(result)
```

```
stop=input("Press Enter to exit 18BCD7058")
```

