Secure Coding Lab-6

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Slot:L39+40

1.Python script to list all the files in current directory

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

```
Python 3.6.8 (tags/v3.6.8:3c6b436a57, Dec 24 2018, 00:16:47) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/Poojith/AppData/Local/Programs/Python/Python36/sc6.py ==
lab12.py
LICENSE.txt
NEWS.txt
python.exe
python3.dll
python36.dll
pythonw.exe
sc6.py
vcruntime140.dll
py.ico
pyc.ico
pyd.ico
pyexpat.pyd
python_lib.cat
python_tools.cat
select.pyd
sqlite3.dll
tcl86t.dll
tk86t.dll
unicodedata.pyd
winsound.pyd
_asyncio.pyd
_bz2.pyd
_ctypes.pyd
_ctypes_test.pyd
_decimal.pyd
_distutils_findvs.pyd
_elementtree.pyd
_hashlib.pyd
```

2.Python script to get all directory names in current directory

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

```
Python 3.6.8 (tags/v3.6.8:3c6b436a57, Dec 24 2018, 00:16:47) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/Poojith/AppData/Local/Programs/Python/Python36/sc6.py ==
DLLs
Doc
include
Lib
libs
Scripts
tcl
Tools
asyncio
collections
concurrent
ctypes
curses
dbm
distutils
email
encodings
ensurepip
html
http
idlelib
importlib
json
lib2to3
logging
msilib
multiprocessing
pydoc_data
site-packages
```

3.Python script to get all the directory and sub directory names

```python
import os

thing= [val for sublist in [[os.path.join(i[0],j) for j in i[2]] for
i in os.walk('./')] for val in sublist]
for x in thing:
    print(x)
```

```
Python 3.6.8 (tags/v3.6.8:3c6b436a57, Dec 24 2018, 00:16:47) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/Poojith/AppData/Local/Programs/Python/Python36/sc6.py ==
./lab12.py
./LICENSE.txt
./NEWS.txt
./python.exe
./python3.dll
./python36.dll
./pythonw.exe
./sc6.py
./vcruntime140.dll
./DLLs\py.ico
./DLLs\pyc.ico
./DLLs\pyd.ico
./DLLs\pyexpat.pyd
./DLLs\python_lib.cat
./DLLs\python_tools.cat
./DLLs\select.pyd
./DLLs\sqlite3.dll
./DLLs\tcl86t.dll
./DLLs\tk86t.dll
./DLLs\unicodedata.pyd
./DLLs\winsound.pyd
./DLLs\_asyncio.pyd
```

4.Pyhton script to get all filename, directory and sub directory names recursively

```python
import os
for dirpath,dirs,files in os.walk("."):
    path=dirpath.split('/')
    print('|', (len(path))*'---', '[',os.path.basename(dirpath),']')
    for f in files:
        print('|', len(path)*'---',f)
```

```
Python 3.6.8 (tags/v3.6.8:3c6b436a57, Dec 24 2018, 00:16:47) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/Poojith/AppData/Local/Programs/Python/Python36/sc6.py ==
| --- [ . ]
| --- lab12.py
| --- LICENSE.txt
| --- NEWS.txt
| --- python.exe
| --- python3.dll
| --- python36.dll
| --- pythonw.exe
| --- sc6.py
| --- vcruntime140.dll
| --- [ DLLs ]
| --- py.ico
| --- pyc.ico
| --- pyd.ico
| --- pyexpat.pyd
| --- python_lib.cat
| --- python_tools.cat
| --- select.pyd
| --- sqlite3.dll
| --- tcl86t.dll
| --- tk86t.dll
| --- unicodedata.pyd
| --- winsound.pyd
| --- _asyncio.pyd
| --- _bz2.pyd
| --- _ctypes.pyd
| ---  ctypes test.pyd
```

Print it in a text file

```python
import os
import sys
sys.stdout=open(test.txt,"w")
for dirpath,dirs,files in os.walk("."):
    path=dirpath.split('/')
    print('|', (len(path))*'---', '[',os.path.basename(dirpath),']')
    for f in files:
        print('|', len(path)*'---',f)
sys.stdout.close()
```

5.Python script to create 4 new files in the directory using powershell

```python
one=open("1.txt","w")
two=open("2.txt","w")
three=open("3.txt","w")
four=open("4.txt","w")
one.close()
two.close()
three.close()
four.close()
```