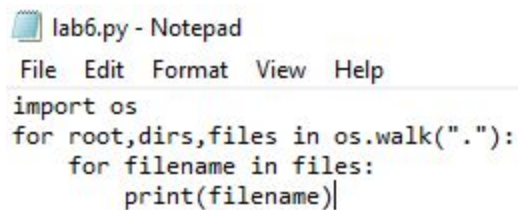# SECURE CODING LAB 6

P.Aravind
18BCE7256

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

Python code in Notepad:

lab6.py - Notepad

File   Edit   Format   View   Help

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

Output in Command prompt:

Command Prompt

```
Microsoft Windows [Version 10.0.18362.1016]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\aravindpoka>cd desktop\securecoding

C:\Users\aravindpoka\Desktop\securecoding>python lab6.py
18BCE7256-Lab 1.pdf
18BCE7256-Lab 2.pdf
18BCE7256-Lab 3.pdf
18BCE7256-Lab 4.pdf
18BCE7256-Lab 5.pdf
lab6.py

C:\Users\aravindpoka\Desktop\securecoding>
```

Output in Windows shell:

Windows PowerShell

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\aravindpoka> cd desktop\securecoding
PS C:\Users\aravindpoka\desktop\securecoding> python lab6.py
18BCE7256-Lab 1.pdf
18BCE7256-Lab 2.pdf
18BCE7256-Lab 3.pdf
18BCE7256-Lab 4.pdf
18BCE7256-Lab 5.pdf
lab6.py
PS C:\Users\aravindpoka\desktop\securecoding>
```

2) Write a python script to get all the directory name in current directory.

Python code in Notepad:

lab6_1.py - Notepad

File   Edit   Format   View   Help

```python
import os

def files(path):
    for file in os.listdir(path):
        if os.path.isdir(file):
            yield file

for file in files("."):
    print (file)
```

Output in Command prompt:

Command Prompt

```
Microsoft Windows [Version 10.0.18362.1016]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\aravindpoka>cd desktop

C:\Users\aravindpoka\Desktop>python lab6_1.py
18BCE7256-Assignment 4
18BCE7256-tak 1
build
dist
Imple
output
securecoding
Venkatesh Korrapadu
web lab
__pycache__

C:\Users\aravindpoka\Desktop>
```
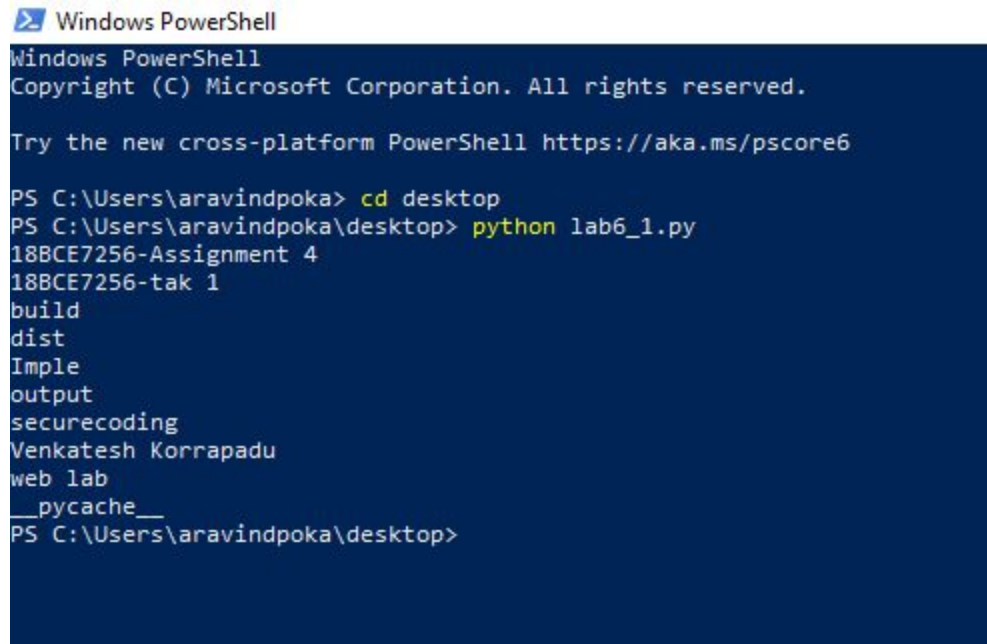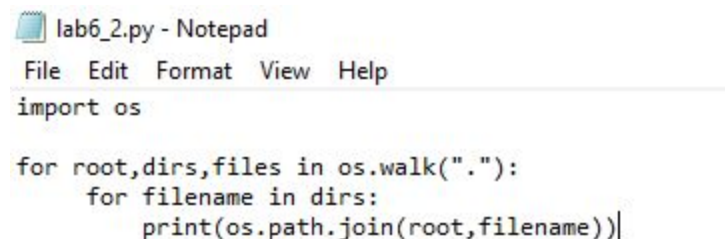
Output in Windows shell:

```
Windows PowerShell

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\aravindpoka> cd desktop
PS C:\Users\aravindpoka\desktop> python lab6_1.py
18BCE7256-Assignment 4
18BCE7256-tak 1
build
dist
Imple
output
securecoding
Venkatesh Korrapadu
web lab
__pycache__
PS C:\Users\aravindpoka\desktop>
```

3)Write a python script to get all the directory and subdirectory names in the current directory

Python code in Notepad:

```
lab6_2.py - Notepad
File  Edit  Format  View  Help
import os

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

Output in Command prompt:

Command Prompt

```
C:\Users\aravindpoka\Desktop>python lab6_2.py
.\18BCE7256-Assignment 4
.\18BCE7256-tak 1
.\build
.\dist
.\Imple
.\output
.\securecoding
.\Venkatesh Korrapadu
.\web lab
.\__pycache__
.\build\'Hello
.\build\Hello
.\output\Video_files

C:\Users\aravindpoka\Desktop>
```

Output in Windows shell:

Windows PowerShell

```
PS C:\Users\aravindpoka\desktop> python lab6_2.py
.\18BCE7256-Assignment 4
.\18BCE7256-tak 1
.\build
.\dist
.\Imple
.\output
.\securecoding
.\Venkatesh Korrapadu
.\web lab
.\__pycache__
.\build\'Hello
.\build\Hello
.\output\Video_files
PS C:\Users\aravindpoka\desktop>
```

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

Python code in Notepad:

lab6_3.py - Notepad

File   Edit   Format   View   Help

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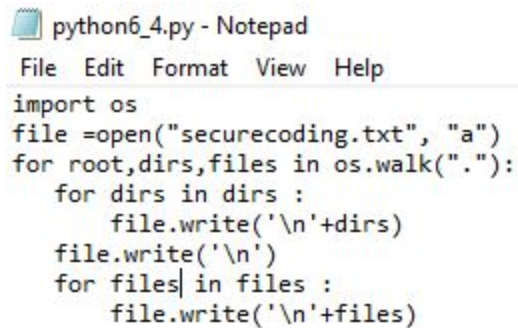
Output in Command prompt:
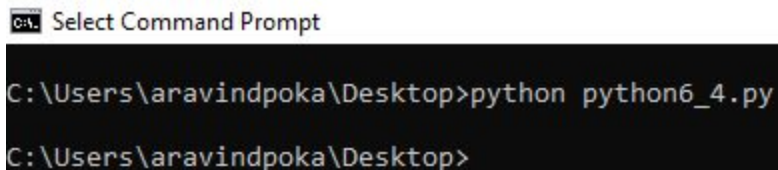

Output in Windows shell:

5)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.

Python code in Notepad:

python6_4.py - Notepad

File Edit Format View Help

```
import os
file =open("securecoding.txt", "a")
for root,dirs,files in os.walk("."):
    for dirs in dirs :
        file.write('\n'+dirs)
    file.write('\n')
    for files in files :
        file.write('\n'+files)
```

Command prompt:

Select Command Prompt

```
C:\Users\aravindpoka\Desktop>python python6_4.py

C:\Users\aravindpoka\Desktop>
```

```
18BCE7256-Assignment 4
18BCE7256-tak 1
build
dist
Imple
output
securecoding
Venkatesh Korrapadu
web lab
__pycache__

18BCE7256-Assignment 4
18BCE7256-tak 1
build
dist
Imple
output
securecoding
Venkatesh Korrapadu
web lab
__pycache__

%a.docs
%b.docs
'Hello.spec
1.pdf
1.py
123.jpg
18BCE7256 cryptography project report - Online LaTeX Editor Overleaf - Google Chrome 2020-12-03 05-34-35.mp4
18BCE7256-Assignment 4.zip
18BCE7256-Lab 2.pdf
18BCE7256-Lab 6.pdf
18bce7256.project.mp4
22.doc
Aravind passport.jfif
Aravind.jfif
Cisco Packet Tracer.lnk
desktop.ini
gate 1.pdf
gate.pdf
Hello (2).py - Shortcut.lnk
Hello.py
Hello.spec
lab 1.txt
Lab 4 - Shortcut.lnk
```

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

Python code in Notepad:

lab6_5.py - Notepad

File Edit Format View Help

```
import subprocess
create=subprocess.Popen(["powershell","New-Item py1.txt,py2.txt,py3.txt,py4.txt"],stdout=subprocess.PIPE)
output=create.communicate()[0]
print(output)
```

Output in Command prompt:

Output in Windows shell: