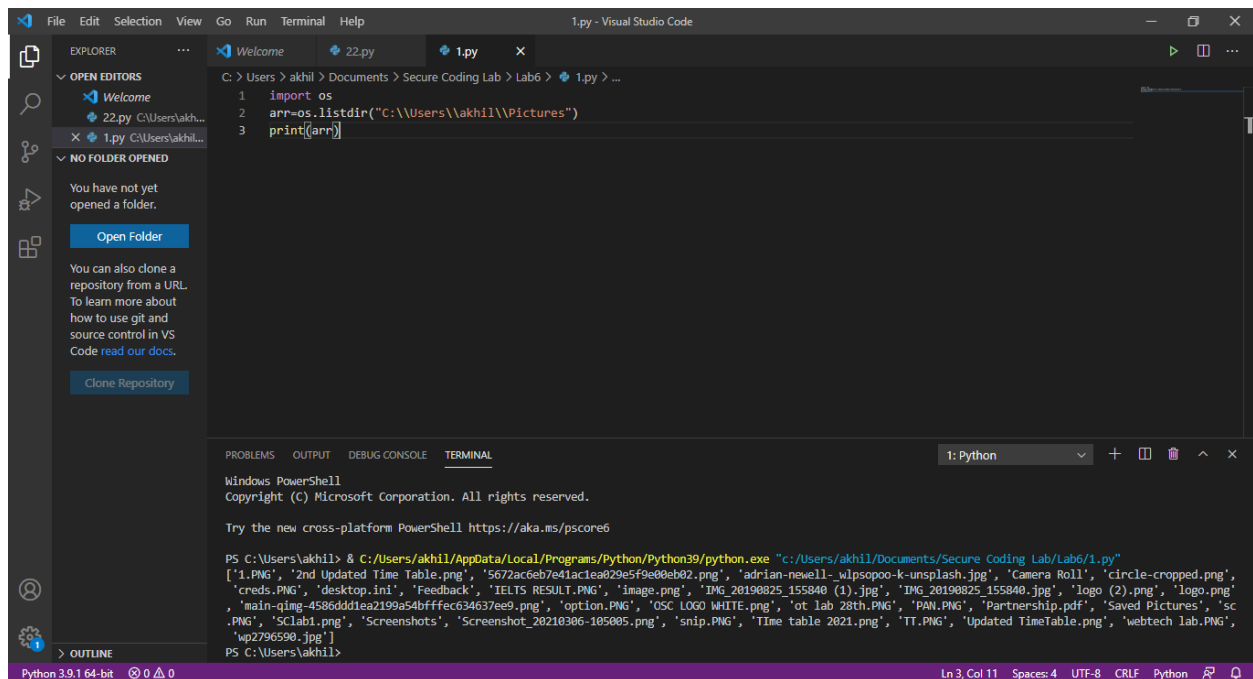


# A KRISHNA AKHIL|18BCE7076|SECURE CODING(L39+L40) [Guided by Prof. Sibi Chakravarthy]

## LAB 6-03/03/2021

- Python script to fetch names of all files and directories in a folder



The screenshot shows the Visual Studio Code interface. The Explorer panel on the left shows the file structure with '1.py' selected. The Editor panel displays the following Python code:

```
1 import os
2 arr=os.listdir("C:\\Users\\akhil\\Pictures")
3 print(arr)
```

The Terminal panel at the bottom shows the output of the script executed in a Windows PowerShell environment:

```
PS C:\Users\akhil> & C:/Users/akhil/AppData/Local/Programs/Python/Python39/python.exe "C:/Users/akhil/Documents/Secure Coding Lab/Lab6/1.py"
['1.PNG', '2nd Updated Time Table.png', '5672ac6eb7e41ac1ea029e5f9e00eb02.png', 'adrian-newell_wlpsopoo-k-unsplash.jpg', 'Camera Roll', 'circle-cropped.png', 'creds.PNG', 'desktop.ini', 'Feedback', 'IELTS RESULT.PNG', 'image.png', 'IMG_20190825_155840 (1).jpg', 'IMG_20190825_155840.jpg', 'logo (2).png', 'logo.png', 'main-qimg-4586ddd1ea2199a54bfffec634637ee9.png', 'option.PNG', 'OSC LOGO WHITE.png', 'ot lab 28th.PNG', 'PAN.PNG', 'Partnership.pdf', 'Saved Pictures', 'sc.PNG', 'SCLab1.png', 'Screenshots', 'Screenshot_20210306-105005.png', 'snip.PNG', 'Time table 2021.png', 'TT.PNG', 'Updated TimeTable.png', 'webtech lab.PNG', 'wp2796590.jpg']
PS C:\Users\akhil>
```

-Python script to fetch all sub directories in a folder



- Recursively fetch files and sub directories in a folder and give output in a txt file

The screenshot shows a code editor with a Python script and a Notepad window displaying its output.

```

1 import glob
2 files=glob.glob("C:\\Users\\akhil\\Pictures"+"**/*", recursive=True)
3
4 with open('filename.txt', 'w') as f:
5     print(files, file=f)

```

The Notepad window displays the following output:

```

['C:\\Users\\akhil\\Pictures\\1.PNG', 'C:\\Users\\akhil\\Pictures\\2nd Updated Time Table.png', 'C:\\Users\\akhil\\Pictures\\Partnership.pdf', 'C:\\Users\\akhil\\Pictures\\Saved Pictures', 'C:\\Users\\akhil\\Pictures\\sc.PNG', 'C:\\Users\\akhil\\Pictures\\Screenshots\\Screenshot (1).png', 'C:\\Users\\akhil\\Pictures\\Screenshots\\Screenshot (10).png', 'C:\\Users\\akhil\\Pictures\\Screenshots\\Screenshot (24).png', 'C:\\Users\\akhil\\Pictures\\Screenshots\\Screenshot (25).png', 'C:\\Users\\akhil\\Pictures\\Screenshots\\Screenshot (39).png', 'C:\\Users\\akhil\\Pictures\\Screenshots\\Screenshot (4).png', 'C:\\Users\\akhil\\Pictures\\Screenshots\\Screenshot (53).png', 'C:\\Users\\akhil\\Pictures\\Screenshots\\Screenshot (54).png', 'C:\\Users\\akhil\\Pictures\\

```

- 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

The screenshot shows Visual Studio Code with a Python script and its output in the terminal.

```

1 import os
2 f= open("pytotext.txt","w+")
3 for dirpath, dirnames, files in os.walk('.'):
4     print(f'Found directory: {dirpath}')
5     f.write(dirpath+"\n")
6     for file_name in files:
7         print(file_name)
8         f.write(file_name+"\n")
9 f.close()

```

The terminal output shows the following directory structure:

```

Found directory: .\anaconda3\pkgs\python-libarchive-c-2.9-py_0\info\test\tests\data
flags.tar
special.tar
tar_relative.tar
testtar.README
testtar.tar
testtar.tar.json
unicode.tar
unicode.tar.json
unicode.zip
unicode.zip.json
unicode2.zip
unicode2.zip.json
0886f0c908e.README
Traceback (most recent call last):
  File "c:\Users\akhil\Documents\Secure Coding Lab\Lab6\6.py", line 8, in <module>
    f.write(file_name+"\n")
  File "C:\Users\akhil\AppData\Local\Programs\Python\Python39\lib\encodings\cp1252.py", line 19, in encode
    return codecs.charmap_encode(input,self.errors,encoding_table)[0]
UnicodeEncodeError: 'charmap' codec can't encode character '\u03c6' in position 0: character maps to <undefined>
PS C:\Users\akhil>

```

