Info 6079: Week 11 LAB09

Lab 9 objective: Getting host information

Lab Time: Due July 24, 2023 11:59pm

Late submission will result in loss of grade.

General comments:

- Make sure that you use proper spaces needed in the blocks: i.e. classes and their methods'
- Download file named **lab_week11.py** from the FOL Lab Content
  - rename it: [your initials]_*lab9_week11.py*
    e.g. hbh_lab_week11_logic.py
- Keep things as simple as possible.
- We are going to write a script that will gather information about a computer.

MARKING

Marked	Details	Marks
HEADER	.py Header information	2
3	Current Working Directory	1
4	Print Files, Directories	1
5	Print Only File name	3
6	host's OS information	1
7	Host Processor info	1
8	Python Version	1
9	Load information to a .txt file	3
	total	14

Info 6079: Week 11 LAB09

Start of Lab

1. header line outlining with
   a. Your name and Student Number
   b. Date of creation
   c. Function (why this file was created)

2. Import modules
   - import os
   - import platform

3. Print Current Working Directory (CWD) of the file.
   a. Use the getcwd() function from OS.
   b. The line should be:
      "Current Working Directory (CWD): " & directory path.

```
Current Working Directory(CWD): C:\Users\Stav\Desktop\Week 11
```

4. Print file(s) and directories in the current Directory
   a. Print to screen: "Files and directories in current Directory:" and all the files and directories

```
Files and directories in current Directory:
Info_6079_Lab_week12.docx
Lab_week12.py
Lesson 12 - Using Python for Scripts .pptx
```

Or

```
Files and directories in current Directory:
['Info_6079_Lab_week12.docx', 'Lab_week12.py', 'Lesson 12 - Using Python for Scripts .pptx', '~$fo_6079_Lab_week12.docx']
```

5. Create for loop Use the walk() function in OS, like slide 22 in this week lesson.
   a. Give it a folder/directory path that you would like.
      e.g. strFileName = "c:\pathname"

   b. If you are hard coding you may need to put \\ not \ .
   c. Print: "Files in in the path given:" and files in directory.
   d. Print *only* the file names. *Not the full path*.

This means you will need to do a bit of changes of what is in the slides.

Sample Output:

```
Files in in the path given:
1_variables.pdf
2_Functions.pdf
```

Now lets work with the platform module!!!!

6. Let's print show the host's OS information:
   a. Print: Host's OS information: + output from platform function

```
Host's OS information: Windows-7-6.1.7601-SP1
```

7. Get and print the host's processor information:
   a. Example is given in slide 26
      i. Check how you call the module compared to how the slide called the module and make proper changes if need to.
   b. print: 'Host's processor info: ' and the information from the function called.

```
Host's processor info:  Intel64 Family 6 Model 94 Stepping 3, GenuineIntel
```

8. It would be great to get the python version on the host machine. Get and print the python version used on the host.
   a. "Print Host's python version:' and the Python version provided by the method

```
Host's python version: 3.8.0
```

9. Run the python code and get the out put to be saved in a text file name: [your initials]_*lab_week11_results.txt*. Look at slides 9 to 14

   Take and save a print screen how you caused to get python to save the output in a file.

   Give a name to the print screen name of :

   [your initials]_*lab_week11_screenprint.png*. any picture ending would do.

Lab Scoring:

Lab is graded out of 14 points for 2.5% of your final grade.

Submitting files in zip format will result in 0.

Don't forget to submit the code.

Submit to folder Lab 9 - Python for Scripts

submit 1 files:

[your initials]_*lab9_week11.py*

e.g. hbh_lab9_week11.py