

PSP0201

Week 4

Writeup

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Day 15 - [Scripting] There's a Python in my stocking!

Tool used: VSCode , THM

Solution/Walkthrough:

Q1

1 represents True and 0 represents False.

From THM we can know TRUE is 1. Therefore, TRUE+TRUE=1+1.

Q2.



Libraries

You've seen how to write code yourself, but what if we wanted to use other peoples code? This is called *using a library* where a *library* means a bunch of someone else's code. We can install libraries on the command line using the command: `pip install X` Where *X* is the library we wish to install. This installs the library from [PyPi which is a database of libraries](#). Let's install 2 popular libraries that we'll need:

It can be found in THM.

Q3.

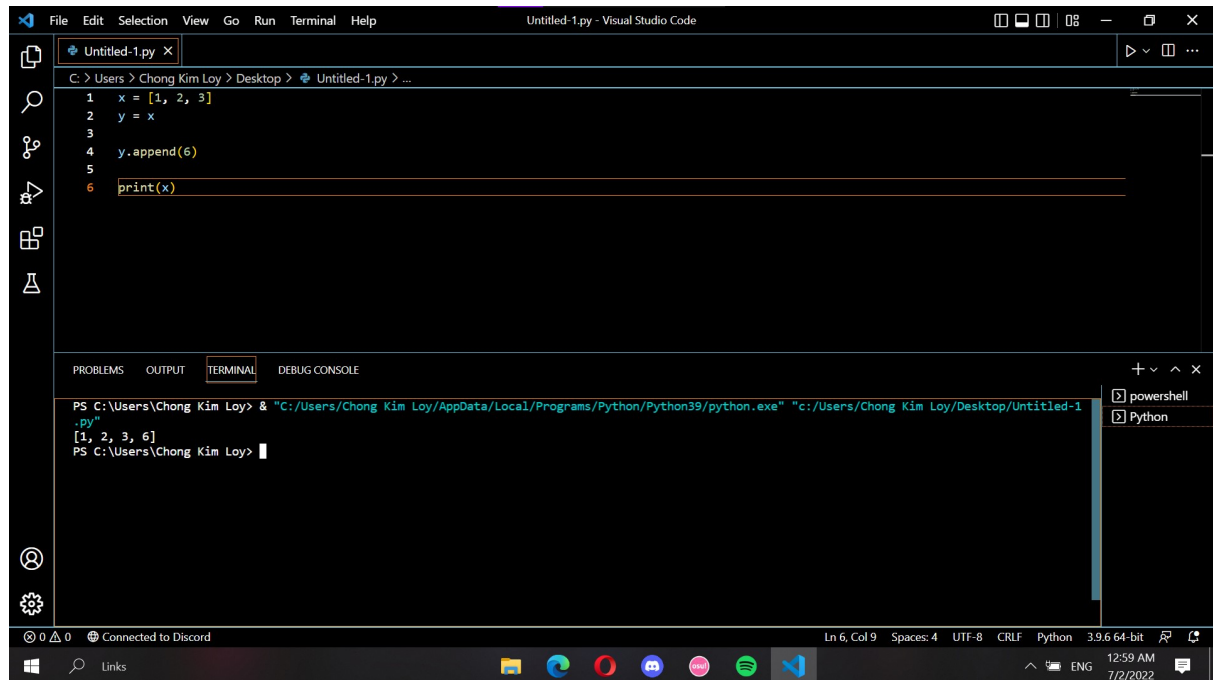
"False" is a string.

Q4.

```
# replace testurl.com with the url you want to use.  
# requests.get downloads the webpage and stores it as a variable  
html = requests.get('testurl.com')
```

Examine THM and get the answer.

Q5.



The screenshot shows the Visual Studio Code interface. The editor window displays a Python file named 'Untitled-1.py' with the following code:

```
1 x = [1, 2, 3]
2 y = x
3
4 y.append(6)
5
6 print(x)
```

The terminal window at the bottom shows the command prompt output after running the script:

```
PS C:\Users\Chong Kim Loy> & "C:/Users/Chong Kim Loy/AppData/Local/Programs/Python/Python39/python.exe" "c:/Users/Chong Kim Loy/Desktop/Untitled-1.py"
[1, 2, 3, 6]
PS C:\Users\Chong Kim Loy>
```

The status bar at the bottom indicates the file is at line 6, column 9, with 4 spaces, using UTF-8 encoding and CRLF line endings. The Python interpreter is set to 3.9.6 64-bit.

Run the code in vscode. The output can be found.

Q6.

Now let's say we wanted to add this variable to another variable. A common misconception is that we take the bucket itself and use that. But in Python, we don't. We **pass by reference**. As in, we merely pass a location of the variable — we do not pass the variable itself. The alternative is to pass by value. This is very important to understand, as it can cause a significant amount of headaches later on.

Examine THM and find the solution.

Q7. “Skidy” is in the lists of name

Q8. “elf” is not in the list of the name.