CS0008: Intro to Python

Weekly Assignment 1

Getting Familiar with Programming

This first assignment will help you get familiar with programming in Python and IDLE.

**Part 1 Installing Python**

Install the latest version of Python from [www.python.org](http://www.python.org) for your operating system. If you plan on using a lab computer, you can skip this step. If you have any trouble installing Python, please go to recitation, the TA’s office hours, or my office hours.

**Part 2 Using IDLE (5 pts)**

Open IDLE which is a program that should come installed with Python. For each row of input below, enter the input into IDLE after the >>> symbol and press enter. If there is no error reported by Python, copy the output from IDLE into the Output column below and write No in the Error column. If there is an error, write Yes in the Error column and do not put anything in the Outputcolumn. If there is no output after executing a statement, simply leave the Output and Error blank.

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Error?** |
| print(“Hello”) | Hello | No |
| 1 | 1 | No |
| 1 + 3 | 4 | No |
| print(1 + 3) | 4 | No |
| print(1+3+”Hello”) |  | Yes |
| test = 4 |  |  |
| test | 4 | No |
| test2 = 5 |  |  |
| test2 | 5 | No |
| test\_3 = 10 |  |  |
| test\_3 | 10 | No |
| $test4 = 1 |  | Yes |
| test + test2 | 9 | No |
| test\_3 = test + test2 |  |  |
| test\_3 | 9 | No |
| test\_3 \* 0.5 | 4.5 | No |
| test\_3 \* 0.5 \* test2 | 22.5 | No |
| print(test\_3) | 9 | No |
| test\_7 |  | Yes |
| print(test\_3 + test) | 13 | No |
| print(test\_3 + “Hello”) |  | Yes |
| print("He\tllo") | He llo | No |
| print(“hello ” + there) |  | Yes |

**Part 3 Using Google and Stack Overflow to find and fix errors (5 pts)**

Being able to use Google effectively to help find and fix errors is a very common task for everyday programmers. Stackoverflow.com is a community site that helps people with programming questions. When you google an error, there is a high chance that some of the first few links will be for stackoverflow.com and these links are generally better than other sites to help you. The best answers are upvoted similar to other social sites you have probably used.

In the previous section, you found some lines of input that resulted in errors. Please use Google to find the causes of those errors and then below, enter the original input that was causing errors, enter new input that results in no errors, and enter the working output. Note that the new input and output will not be the same for each student based on how they fix the error, but the fix should be close to the original intent (for example an incorrect math statement should not be fixed with a print statement). The point of this is for you to get familiar with how to use Google and Stack Overflow to identify and fix mistakes.

Note: the better you are at using Google and stackoverflow.com, the less help you will need from me and the TAs for the projects but of course we are also happy to help.

|  |  |  |
| --- | --- | --- |
| **Error Input** | **Correct Input** | **Error Free Output** |
| print(1+3+"Hello") | print("1 + 3"+"Hello") | 1 + 3Hello |
| $test4=1 | test4=1 | (no output) |
| print(test\_3 + "Hello") | print(str(test\_3)+"Hello") | 9Hello |
| print("hello" + there) | print("hello" + "there") | hello there |
| test\_7 | test\_7 = 0 | (no output) |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |