Lab: Printing

Tutorial Lab 1: Printing

1. In the text editor to your left, you will see the code below:

```
string my_var = "I am learning"; //step 1
cout << my_var; //step 2
my_var = " to program"; //step 3
cout << my_var; //step 4
my_var = " in C++."; //step 5
cout << my_var << endl; //step 6
my_var = "Hooray!"; //step 7
cout << my_var; //step 8</pre>
```

- 2. Click TRY IT to see what the code outputs.
- 3. Click on the ++underlined++ text below to highlight some of the important points in the code:
 - Step 1 Declare the variable my_var and initialize it to the value I am learning
 - o Step 2 Print without a new line character by not including << end1;
 - Step 3 Add a space when starting the string to avoid printing learningto
 - o Step 6 A newline character is added using << end1;
 - Step 8 Hooray! is on its own line since the << end1; command was used in step 6
- 4. To remove the highlighting, click here: Remove Highlighting

Lab: Variables

Tutorial Lab 2: Variables

- 1. Use the text editor to the left.
- 2. Copy the code below.

```
int one = 1;
int two = 2;
int three = 3;
int four = 4;

two = one;
three = two;
four = three;

cout << four;</pre>
```

3. TRY IT to see the output. Click on the ++Code Visualizer++ link below to go through the program step by step.

Code Visualizer

Lab: Challenge

Tutorial Lab 3: Fundamentals Challenge

In the code to the left, we see that there are a series of declared and initialized variables. Use these variables along with the cout << and << end1; commands to print out a custom message to customers who open a chat client.

Your output should look something like this:

```
Hello! Today is Wednesday, May 4.
The current wait time is 4 minutes.
```

The pattern is as follows. The * indicates variables:

```
*greeting* Today is *dayOfWeek*, *month* *day*.

The current wait time is *currentWaitMinutes* minutes.
```

To test the code, first click on the COMPILE button. This will compile your code and turn it into a program. If your program compiled successfully, you will see the message Command was successfully executed. Then you can run your program by clicking on the TEST buttons. You will see the output of a few different test cases:

Take a look at the test outputs above. Do they look like the expected outputs below? If not, your code may need some revision.

```
Hello! Today is Monday, July 4.
The current wait time is 9 minutes.
```

```
Howdy! Today is Tuesday, December 15.
The current wait time is 2 minutes.
```

```
Greetings! Today is Friday, March 13.
The current wait time is 39 minutes.
```