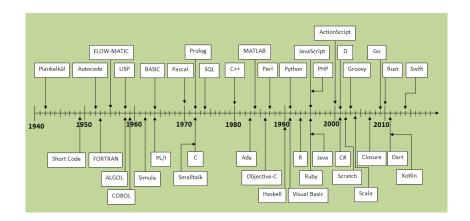
# GSET - Programming with Mr. Hill - Summer 2021

## Introduction to C++ - Tutorial 1 - Hello C++



#### Overview:

Traditionally, the first program we write when learning a new language is called *Hello World*.

#### System Requirements:

- Computer: A computer is required to complete this tutorial. Any OS should work.
- Internet: Your computer must be connected to the internet to proceed. It is a good idea to update the system before you begin.

#### Disclaimer:

• Programming Experience: Everyone is different and has a different level of computer experience. This is expected. Do not worry if you feel behind or ahead of your peers.

### Part 1 - Programming Environment:

Choose your programming environment before you get started. You have several options. Recommended Option:

• Online C++ Compiler - OnlineGDB

#### Advanced Options:

- GCC MinGW
- Mac (Xcode)
- MS Visual Studio

## Part 2 - The Code:

1. This is the C style way to output text.

2. This is the C++ style way to output text.

```
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   Hello World - C++ - June 2, 2021
   #include <iostream>
   using namespace std;
9
   int main()
     cout<<"Hello World";</pre>
13
14
     return 0;
15
   }
16
```

- 3. Look at each line of the program carefully.
  - Lines 1-7: Block Comment
  - Lines 9: Pre-Processor Directive
  - Line 11: A namespace declaration
  - Lines 13-18: The main function
    - Line 15: Print to the standard output
    - Line 17: Complete the main function, return and integer

## Part 3 - Testing:

- 1. Now, compile and run the C, and C++ code separately. What are the differences?
- 2. Choose a third language and repeat the exercise. Explain why you made this choice, also describe the purpose each line of the source code in the third version of hello world.
- 3. Save your code with the download button or use copy and paste. You can view and edit the code in any text editor. Also, save a copy of the program output for your tutorial summary.

## **Tutorial Complete:**

Congratulations, after completing  $Tutorial\ 1$  -  $Hello\ World$ , you have begun learning to program in C++! You are now ready to start Variables, Expressions, and Assignment.

#### **Tutorial Summary:**

Write a brief summary of what you accomplished and what you struggled with the most. Include the following items in the summary:

- a copy of the output of your program
- a description of what the program does and how to use it

#### Submission on Teams:

Use the appropriate shared folder on Teams to submit your program and summary. Submit the following items with your TNTech username in the filenames as shown below.

Files for Tutorial 1 (TNTech Username : twhill21)

Tutorial Summary: twhill21\_summary0.txt
C++ Source Code: twhill21\_tutorial0.cpp