

# GSET - Programming with Mr. Hill - Summer 2021

## Introduction to C++ - Tutorial 0 - Hello World



### 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 C++ Code:

1. You have been given the following example code. Study the program before running it.

---

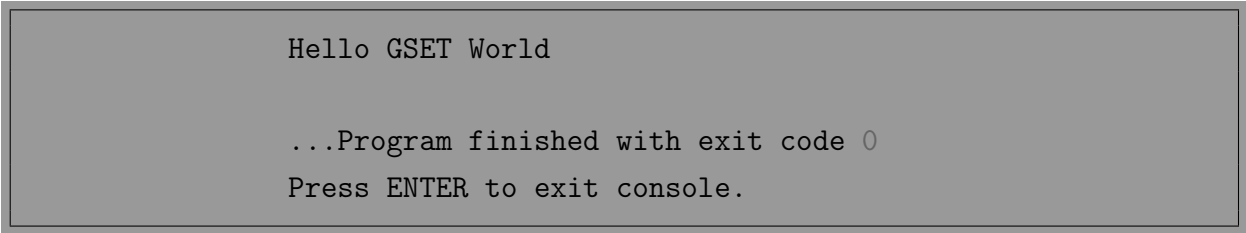
```
1  /*****
2
3  GSET - Summer 2021
4  Programming with Mr. Hill
5  Hello World - June 2, 2021
6
7  *****/
8
9  #include <stdio.h>
10
11  int main()
12  {
13      printf("Hello World");
14
15      return 0;
16  }
```

---

2. Look at each line of the program carefully.
  - Lines 1-7: Block Comment
  - Lines 9: Pre-Processor Directive
  - Lines 11-16: The main function
    - Line 13: Print to the standard output
    - Line 15: Complete the main function, return and integer

## Part 3 - Testing:

1. Now, compile and run the C++ code by pressing the run button.
2. The output of the program is shown in the terminal below.



```
Hello GSET World

...Program finished with exit code 0
Press ENTER to exit console.
```

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++!

**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 your program
- 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. Include your TNTech username in the filenames as shown below.

**Filenames for Tutorial 1:**

TNTech Username : `twhill21`

Summary File: `twhill21_summary0.txt`

C++ Source Code: `twhill21_tutorial0.txt`