

# Coding Exercise: 0- Hello, World! <sup>1</sup>

## Chapter 0: Basics of C++<sup>2</sup>

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September 19, 2024

<sup>1</sup>A coding exercise for Chapter 0 of the Study Guide on the course Data Structures and Algorithms.

<sup>2</sup>This chapter introduces the basic concepts of C++

<sup>3</sup><https://github.com/godkingjay>

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## Coding Exercises

*“C makes it easy to shoot yourself in the foot; C++ makes it harder, but when you do, it blows away your whole leg.”*

– Bjarne Stroustrup

Instructions: Write a program that solves the following problems. Submit your code to the Google Drive folder provided by the instructor.

1. Write a program that prints the message “Hello, World!” to the console.
2. Write a program that computes the sum, difference, product, quotient, and remainder of two numbers then prints the results to the console.

$$num1 = 10 \quad (1)$$

$$num2 = 4 \quad (2)$$

$$num3 = 3.5 \quad (3)$$

$$num4 = 2.5 \quad (4)$$

$$sum = num1 + num2 \quad (5)$$

$$diff = num1 - num2 \quad (6)$$

$$prod = num3 \times num4 \quad (7)$$

$$quot = num3 / num4 \quad (8)$$

$$rem = num1 \% num2 \quad (9)$$

Output:

```

1      Sum: 14
2      Difference: 6
3      Product: 8.75
4      Quotient: 1.4
5      Remainder: 2

```

## Submission of Coding Exercises

Instructions:

1. Go to the Google Drive folder provided by the instructor:

**BSIT 2-4:**

<https://drive.google.com/drive/folders/1uc3ehhK4Mv84KXPe8oV3l3AGI6czVhBx?usp=sharing>

**BSIT 2-5:**

[https://drive.google.com/drive/folders/1eIkUp3t2cAKIpd9KZGbQlZEGU516S\\_sE?usp=sharing](https://drive.google.com/drive/folders/1eIkUp3t2cAKIpd9KZGbQlZEGU516S_sE?usp=sharing)

2. Inside the folder, create another folder for your group with the following format:

**Group Number - LastName1\_FirstName1, LastName2\_FirstName2**

Example: **Group 1 - Doe\_\_John, Smith\_\_Jane**

3. Inside the sub-folder, create another folder with the name:

**Chapter 0- Coding Exercise 0- Hello, World!**

4. Inside the folder, upload the file of your submission.

Fill in the template provided in the following link and upload it inside the folder:

[https://docs.google.com/document/d/1zZf3W0Hj6NfCGU7sKAaz\\_cztSER5e7Vx/edit?usp=sharing&ouid=112709378145681657270&rtpof=true&sd=true](https://docs.google.com/document/d/1zZf3W0Hj6NfCGU7sKAaz_cztSER5e7Vx/edit?usp=sharing&ouid=112709378145681657270&rtpof=true&sd=true)

5. The activity must be submitted **on or before October 11, 2024**.
6. Late submissions will not be accepted.