In this activity, you will be given a series of problems that will challenge your logical understanding of C++ covered by the modules, and not. For each problem, you are expected to create a project and write a working solution depending on the requirements of the problem.

Always keep in mind, *think outside the box*.

**Objective/s:**

At the end of this activity, the students are expected to be able to:

* discuss the implications of the given problems
* use the if-else statement accordingly
* use the appropriate operators for the program requirements

**Material/s Needed:**

* Visual Studio Code
* MinGW

**Procedure:**

1. Make sure you have a running version of the “Hello World” application shown in Module 004. If not, review the steps to setup your Work Environment.
2. There will be a series of problems you are required to code. For each, you need to provide C++ codes for the actual solution.
3. Keep the project files for record as they may be requested by the instructor.

**Questions:**

1. Write a program that will accept an integer and execute one of the following based on the input using IF statements:
   1. If 0, display only “Hello World”.
   2. If 1, display only “I am Groot”.
   3. If 2, display only “To the Top”.
   4. If 3, display only “Where is the horizon”.
   5. If 4, display only “I do not know”.
   6. If none of the above, display only “Yeah, I will.”.
2. Write a program that will accept an integer and execute one of the following based on the input using SWITCH statements:
   1. If 0, display only “Hello World”.
   2. If 1, display only “I am good”.
   3. If 2, display only “To the Top”.
   4. If 3, display only “Where is the horizon”.
   5. If 4, display only “I do not know”.
   6. If none of the above, display only “Yeah, I will.”.
3. Write a program that will divide the two floating points entered by the user (first number entered divided by the second number entered). Make sure your application handles all possible scenarios with floating points.
4. What can you conclude from this activity?

**INSTRUCTIONS FOR THE STUDENTS:**

* *The filename of your lab activity should be:*

*“<Last Name><First Name>-LaboratoryExercise0<XX>”*

* *Provide screenshots of your VS codes and program output copied to a Word file.*
* *Upload the Word file to the link provided for the activity in the LMS.*