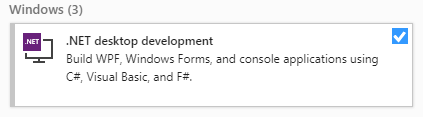
C# Lab 001 – Due 30th December 2019



**Prerequisites:** Download Visual Studio 2019 Community edition and Install the C# / .NET package from the installer.

In this lab you will be learning the fundamentals of working with the boolean variable type *and if-statements*. *If-statements* are the building blocks of making decisions via computing. Design and implement 5-question quiz as a console application. The questions can be found below. You likely will get stuck while attempting to fulfil the specifications of the program, I strongly suggest you google any questions you have. Stackoverflow is an excellent resource for learning.

Questions

Is C# a programming language? (true)

Is it the year 2020? (false)

Does a dog have 16 toes? (true)

Is Italy part of the European Union? (true)

Do nuts grow on trees? (true)

**Note:** Make sure your variables have the keyword static before them (eg. static int correct = 0;). Otherwise we would need to instantiate the *program class* to use the variables in the Main method. We will learn about instantiation in the next lab. If you would like to learn about what static means you will find a brief explanation here but don’t worry about it too much for right now if it doesn’t make sense. <https://en.wikipedia.org/wiki/Static_variable>

1. Tell the user their answers should be submitted as ‘true’ or ‘false’ and store their answer in boolean form.
2. Create a variable of type integer named correct to track how many questions were answered correctly. (Hint #2)
3. **Write** the questions to the console screen sequentially and **Read** in the users answer after each question. Check each answer is correct or not as it comes in
4. Once all questions have been answered, alert the user to the completion of the quiz, and display to them how many answers they got correct.

Hints

1. To **Read** in the users answer as a boolean you will be required to *parse* the Read statement to a boolean. The code used to *parse* can be found below.
   1. bool.Parse(*read statement here*);
2. You will need to increment this variable after each question is answered. In order to do this correctly you will need an *if-statement* to check if the answer is correct, if it is not correct, the code within the brackets will not be run. Pseudocode of what the *if-statement* would look like is found below.
   1. If(answer == true)

{

Increment counter

}

1. All variables should be declared in the class and include the static keyword, not in Main.