Laboratory Assignment 2

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1. Define Data and Data Types.

    Data in programming is information and data type is a classification of a particular type of information or data.

2. Give and define at least 4 different data types used in different programming languages.

    Boolean example value is (True or False)
    Double example value is (1.79769313486232E308)
    Integer example value is (1234)
    String example value is (abcd)

3. Differentiate a if, If-Else, and a switch-case statement in selections for programming.

    If else is used for more complicated condition to execute a program while switch in the other hand is much simpler and only need a keyword to execute a command. Mostly if else is used for more advance programs and switch is used for faster programs and its popular to be used in game development.

4. Differentiate the difference between a While loop, a for Loop, and a Do While Loop.

    While loop is for making a block of code continuous regardless of how many times it happens as long as specific condition was met. Do-While Loops in the other hand are guaranteed to only execute once as the block of code will execute once before evaluating the expression. For loops are for when you want absolute control over every aspect of the loop, it will loop a block of code how many times the user wants and how fast the user wants it to be, in general whatever the user wants the loop to be.