## Lab 03 - Boolean Problems & Function Definitions

Direction: Submit your typed work(s) as an upload(s) to the Labs directory of your GitHub repository or Dropbox, or in your correct Lab03 google classroom assignment. Each part should be a separate files. The files named should be "lab3A.txt" and "lab3B.cpp" respectively.

## Part A: In class

Your objective is to write the boolean expressions that are described below.	Assume that the variables in the descriptions
are already initialized.	

	Write an expression that determines if two numbers, $s$ and $t$ , have the same sign.
	Write an expression that determines if an integer, $n$ , is a negative three digit number.
	Write an expression that determines if a day, $dy$ , fell on a Wednesday in the month of October 2020 (the first Wednesday is on the 7th).
	Write an expression that determines if a string, $wd$ , equals "hi" ignoring case.
Part	B: Take home
Your functi	objective is to write a complete cpp program that defines the following functions and calls them in the main ion.
	A double function named Perimeter() that takes two double parameter named $lh$ and $wh$ . It returns the perimeter of a rectangle whose length and width are equal to $lh$ and $wh$ respectively.
	A void function named $\texttt{Distance}()$ that takes two double parameters and a double reference parameter named $a, b$ and $r$ respectively. It assigns the distance between $a$ and $b$ to $r$ .
	A string function named Arrangements() that takes three char parameters named $a$ , $b$ and $c$ respectively. It

returns a string of all of the three letter strings of the parameters with each arrangement separated by a space.