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 an integer, x , is a multiple of both 3 and 7.
Write an expression that determines if an integer, n , is a positive three digit number.
Write an expression that determines if a day, dy , fell on a Monday in the month of October 2020 (the first Monday is on the 5th).
Write an expression that determines if a string, wd , equals "no" ignoring case.
B: Take home objective is to write a complete cpp program that defines the following functions and calls them in the main on.
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.