Assignment 3 (C++)

i) Write a function called hms_to_secs () that takes three int values—for hours, minutes, and seconds—as arguments, and returns the equivalent time in seconds (type long). Create a program that exercises this function by repeatedly obtaining a time value in hours, minutes, and seconds from the user (format 12:59:59), calling the function, and displaying the value of seconds it returns.

ii) Write a function called zeroSmaller() that is passed two int arguments by reference and then return the smaller of the two numbers and set to zero. Write a main() program to exercise this function.

iii) Write a function called greater() that is declaring two int global variables and entered using keyboard in main and return by reference the smaller of the two numbers and smaller as zero. Write a main() program to exercise this function.

iv) Write a function that passes two temperatures by reference and sets the larger of the two numbers to 100 using return by reference. Write a main() program to exercise this function.

5 feet and 54 inches

v) Create a structure and pass this by reference to a function scale() and calculate the distance by using scaling factor. Display the distance in feet and inches using display() function. Write a main() program to exercise this function.

vi) Write a C++ program implementing inline function to find the area of circle.

vii) Write a program using overloaded function named **area()** that can be used to compute the area of triangle, rectangle as well as circle.

viii) Write a program to set a structure to hold a date (mm, dd and yy), assign values to the members of the structure and print out the values in the format 11/28/2020 by function. Pass the structure to the function.

ix) Write a program to set a structure to hold feet and inches, assign values to the members of the structure and print out the values in the format 4’ 10” by function. Pass the structure to the function. [Note: if inch is greater than 12, covert it into feet]

x) Write a recursive c++ program to find the factorial of entered number.

xi) Write a recursive c++ program to print the Fibonacci series of N^{th} number.