Name your program **hw1.cpp**. Program must be able to compile or you will get at most 1.5 out 3 points for the assignment.

Write **one single** complete C++ program to do all sections below:

**A. Available Credit (from p.23 of “Starting Out with CPP, 7ed)**
Write a program that calculates a customer’s available credit. The program should carry out the following steps:
1. Display the message “Enter the customer’s maximum credit.”
2. Wait for the user to enter the customer’s maximum credit.
3. Display the message “Enter the amount of credit used by the customer.”
4. Wait for the user to enter the customer’s credit used.
5. Subtract the used credit from the maximum credit to get the customer’s available credit.
6. Display a message that shows the customer’s available credit.

**B. Write a program that computes the area of Trapezoid. Unknown values should be input by user. The area should be a double.**

Here’s a sample input and output:
[ctse@venus ans]$ ./hw1_fa17_sol
Part A:
Enter the customer's maximum credit. 10001.5
Enter the amount of credit used by the customer. 1.5
Customer's available credit = 10000
Part B:
What is the height of the trapezoid? 3.0
What is the base 1 of the trapezoid? 3.1
What is the base 2 of the trapezoid? 11.9
The area of the trapezoid is: 22.5