Name your program `hw1.cpp`. Program must be able to compile or you will get at most 1 out of 2 points for the assignment.

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

A. Write a welcome page for the class that looks like the following:

```
| Hello, this is CS111! |
| It's good to see you! |
```

B. 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.

C. 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_sp18_sol
Part A:
| Hello, this is CS111! |
| It's good to see you! |
Part B:
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 C:
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
```