CS111 Assignment 3

- 1. Write a complete C++ program that does the following:
 - (a) Declares two variables, savings and expenses, of type double.
 - (b) Prompts the user for the amount of savings and expenses and stores in the corresponding variable.
 - (c) Write an if-else statement that
 - outputs the word Solvent
 - decreases the value of savings by the value of expenses
 - sets the value of expenses to 0, provided that savings is at least as large as expenses
 - (d) If, the savings is less than expenses, the *if-else* statement
 - outputs the word Bankrupt
 - does not change the value of any variable
- 2. Write a complete C++ program that does the following:
 - (a) Declares a variable number of type int.
 - (b) Prompts user for a positive 3-digits integer.
 - (c) Tests the input for out of bound cases larger or smaller than 3 digits using *ifelse* statements.
 - (d) Calculates and prints the sum of the digits if the input value is valid.
 - (e) Otherwise, display error message and terminate the program.

Program output should look similar to below:

Question 1:

```
savings: 10000.0 (input)
expenses: 4600.0 (input)
savings = 5400.0 (resets savings)
expenses = 0.0; (resets expenses)
Solvent (output)
```

Question 2:

```
Please input 3-digit positive integer. 441 The sum of all digits in 441 is 9.
```