1. using **value** parameters

Write a program that has one integer function called diff1() which takes two integer value parameters, A and L, and returns an integer value equal to the positive difference between the two parameters. The "positive difference" means that the return value should always be ≥ 0 . In other words, if A > L, the function should return A - L; if A < L, the function should return L - A; and if A == L, the function should return 0.

The main() function should:

- a. prompt the user to enter two integer values,
- b. echo the user's input,
- c. invoke diff1() to compute the positive difference between them, and
- d. print out the result.

2. using **reference** parameters

Write a program that has one void function called diff2() which takes two integer value parameters, A and L, and one integer reference parameter, N. The function should set the value of N equal to the positive difference between the first two parameters. In other words, if A > L, then N = A - L; if A < L, then N = L - A; and if A == L, then N = 0.

The main() function should:

- a. prompt the user to enter two integer values,
- b. echo the user's input,
- c. invoke diff2() to compute the positive difference between them, and
- d. print out the result.

3. using the cout formatting functions

Write a program that has one void function called diff3() which takes two double value parameters, A and L, one double reference parameter, N, and one double boolean parameter, loss. The function should set the value of N equal to the positive difference between the first two parameters. In other words, if A > L, then N = A - L; if A < L, then N = L - A; and if A == L, then N = 0. The function should set the value of loss to true if L > A or +false+ otherwise.

The main() function should:

- a. prompt the user to enter two double values which represent money, assets (A) and liabilities (L);
- b. use cout formatting functions to echo the user's input as currency using dollars and cents (\$ followed by two decimal places);
- c. invoke diff3() to compute the positive net difference between the assets and liabilities, and
- d. print out the result, as a currency value in dollars and cents. If the result (net difference) is a loss, then the output should be printed inside parenthesis, e.g., (\$12.99).