4- Write a program called **SumAndAverage** to produce the sum of 1, 2, 3, ..., to 100. Also compute and display the average. The output shall look like:

The sum is 5050

The average is 50.5

\* Modify the program to use a "while - do " loop instead of "for" loop.

\* Modify the program to use a "do-while" loop.

\*Notice What is the difference between "for" and "while-do" loops? What is the difference between "while-do" and "do-while" loops?

\* Modify the program to sum from 111 to 8899, and compute the average. Introduce an int variable called count to count the numbers in the specified range.

\*Modify the program to sum only the *odd* numbers from 1 to 100, and compute the average. (HINTS: n is an odd number if n % 2 is not 0.)

\*Modify the program to sum those numbers from 1 to 100 that is divisible by 7, and compute the average.

\*Modify the program to find the "sum of the squares" of all the numbers from 1 to 100, i.e. 1\*1 + 2\*2 + 3\*3 + ... + 100\*100.