Problem Set 01 - CPP Fundamental
(Mandatory)

Write the following C++ programs in separate files such that the name of each file is in the format

`main1`n`.cpp`

where n is the number of the program in the list below.

Programs:

1. Write a program that displays the message `"Hello World"`.

2. Write a program that initializes a string variable to your name and then displays the message `"Hello "` followed by your name by using the variable.

3. Write a program that initializes two integer variables to random numbers and then displays the sum of the squares of the variables.

4. Write a program that initializes an integer variable to a random number and then states if the number is even or odd.

5. Write a program that initializes an integer variable to a random number and then states if the number is positive, negative, or zero.

6. Write a program that prompts the user to enter a word and then displays the input echoed three times on the same line.