Exercise 01 - Fundamentals: Functions

Create a cpp file named 'main01.cpp' that defines and test the following functions

- 1. Define a double function named Hypotenuse() that takes two double parameters. If both parameters are positive, it returns the square root of the sum of their squares; otherwise, it returns 0.
- 2. Define a Boolean function named IsWord() that takes a string parameter and returns true if all the parameter characters are letters.
- 3. Define an integer function named Median() that takes three integer parameters and returns the median of the parameters.

Note: The median of three values is the second largest.

4. The profit from the sale of a stack can be calculated as:

$$Profit = ((NS * SP) - SC) - ((NS * PP) + PC)$$

where:

- *NS* is the number of shares,
- *SP* is the sale price per share,
- SC is the sale commission paid
- *PP* is the purchase price per share,
- *PC* is the purchase commission paid.

Define a Boolean function named madeProfit() that takes a double parameter for each component in the above equation excluding profit, and returns true if all parameters are positive and the equation evaluates to a positive value; otherwise, it returns false.