CS115 - LABWORK 2

Aim: Understanding the fundamental types in C and exercising with simple programs.

1. Write a small program to print the 3rd edge of a triangle to screen when the two edges and the angle between those edges of the triangle is given as input from the keyboard. Hint: Use the formula, $c^2 = a^2 + b^2 - 2ab\cos(\alpha)$.

   Sample output:
   
   ```
   input first edge: 3.000
   input second edge: 4.000
   third edge is: 5.000
   ```

2. Write a program that prints the values of each digit in a 3-digit integer number.

   Sample output:
   
   ```
   input a positive integer number: 376
   first digit: 3
   second digit: 7
   third digit: 6
   ```

3. a. Write a program in order to print the characters of your name that are defined as individual char constants of letters within the global scope of that program.

   b. Write another program to print your name. This time, for printing, use the relevant ASCII values of each character in your name.

   c. Write another program to print the characters of your name. While executing the program, after getting one letter of your name as an interactive char input, put it to the screen. Print every characters of your name using the same interactivity sequentially. Hint: Use “getchar()” and “putchar()” sequentially.