

# Lab One

ID1303: Introduction to Programming

## Exercises for lab 1:

1. **Basic arithmetic:** Learn how to read and write integer and float (real) values and to perform basic arithmetic operations.

(a) Sample code: `int_variables.c` and `input_int_variable.c`; compile and execute the two programs; try to guess the output of the first program before running it.

(b) Write a C program to accept two integer variables as input from the user and print their sum and product on the same line. Use two new variables to store the sum and product. An example of how your program should run:

Enter first number: 8

Enter second number: 20

The sum of the two numbers is 28 and the product of the two numbers is 160.

(c) Write a C program to accept two positive integers a,b and print the following: the quotient when a is divided by b, and the remainder when a is divided by b.

(d) Write a C program to accept a positive integer; assuming that the input integer is less than 1000, print its digits on separate lines.

(e) Use float variables and write a program which accepts the radius of a circle and prints its area and circumference.

2. **Printing stuff on the screen**

(a) Sample code: `helloWorld.c`

To do: Write a program to print two lines of English text, followed by an empty line, followed by two lines of text again.

Example:

There are 10 types of people;  
Those who know binary and those who don't.

Twinkle, twinkle, little star,  
How I wonder what you are.

(b) Read the helloUser.c program and modify it so that it prints the first character of the user as Z. An example of how it should run.

Hello, user. What's your name? Ravi

Welcome, Zavi