

# BASIC PROGRAMMING

## LABWORK 5: FUNCTIONS

### Exercise 1:

Write a function in C to find the greatest common divisor (gcd) of two positive integer numbers.

### Exercise 2:

Use the gcd function in the previous exercise to find the greatest common divisor of four positive integer numbers.

### Exercise 3:

Write two C functions that compute  $f(x)=2.5x$  and  $g(x,y)=xy$

### Exercise 4:

Write a C function to enter a positive integer number and calculate  $n!$  using recursive function.

### Exercise 5:

Write two C functions to calculate  $x^n$ ,  $n$  and  $x$  are input from the keyboard by the normal function and recursive function.