

# BIL102E

## Lab 7 Functions

**Q1: Finding the area and perimeter (or circumference) of the following geometric shapes (shapes.c)**

- Rectangle
- Square
- Circle
- Hint: You will send the parameters to the functions, then the functions are going to return the expected output.

**Q2 :Finding minumum of 4 number (min\_number\_of\_four.c)**

Write a function `int min_of_four(int a, int b, int c, int d)` which reads four arguments and returns the smallest among them all.

**Q3 Finding fibonacci numbers (fibonacci.c)**

The Fibonacci sequence are the numbers in the following integer order.

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, .....

In mathematical terms, the sequence  $F_n$  of Fibonacci numbers is defined by the following recurrence relation

$$F_n = F_{n-1} + F_{n-2}$$

with seed values

$F_0 = 0$  and  $F_1 = 1$ .

- Your function should accept an integer index of the Fibonacci sequence,  $n$ , which is going to return the  $n^{th}$  element of the Fibonacci sequence.