Department of ICT
Faculty of Technology
University of Ruhuna

Programming Practicum – ICT1142 **Level 1- Semester 1**

Lab Sheet 05 **| 2022**

Objective:

To familiarize with flow charts and pseudo codes.

Exercise 01

a) Draw a Flowchart to input the length and width of a shape and check whether it is a square or not.

b) Write a pseudo code for part (a).

c) Convert your pseudo code in to the C program.

Exercise 02

a) Write a pseudo code that inputs two numbers (a and b) and output the smallest number among them.

b) Draw a flow chart for the above scenario.

c) Convert your flow chart in to the C program.

Exercise 03

a) Develop an algorithm by using flow chart to display the numbers 1, 2, 3, 4, 5, ….., 100.

b) Write a pseudo code for the given scenario.

c) Convert your pseudo code in to the C program.

Exercise 04

a) Write a pseudo code that inputs ten numbers and outputs the sum and average of them.

b) Draw a flow chart for part (a).

c) Convert your flow chart in to the C program.

Exercise 05

To travel from home to Ruhuna university, a particular student needs to take three buses. Input the fares of each bus and estimate the traveling expenditure of the student for the entire semester. (Assume that there are 5 days per week and 15 weeks for the semester).

a) Write a pseudo code for above question.
b) Draw a flow chart for above question.
c) Convert your pseudo code into the C program.

Exercise 06

a) Draw a flow chat to find the largest among three different numbers entered by the user.

b) Write a pseudo code for above scenario.

c) Convert your pseudo code in to the C program.

Exercise 07

a) Write a pseudo code to input numbers from the user and check whether it is even or odd.

b) Draw a flow chart for above scenario.

c) Convert your flow chart in to the C program.

Exercise 08

a) Draw a flow chart to calculate area and perimeter of rectangle.

b) Write a pseudo code for it.

c) Convert your pseudo code in to the C program.

Exercise 09

a) Write a pseudo code to check a number is positive or negative.

b) Draw a flow chart for above scenario.

c) Convert your flow chart in to the C program.