

## **LAB EXERCISE 2**

### **TOPIC: ELEMENTARY PROGRAMMING & CONTROL STRUCTURES**

**NAME:**

**MATRIC NO:**

**SECTION:**

#### **QUESTION 1**

**[10 Marks]**

**Sketch a flowchart** for a program that will perform like a calculator involving operators add, subtract, multiply and divide:

- a. Prompt the users to enter desired operator of char type (add, subtract, multiply and divide)
- b. Prompt the users to enter two inputs of numbers
- c. Use switch-case statements to check the entered input
  - i. If the user enters `+`, addition is performed on the numbers.
  - ii. If the user enters `-`, subtraction is performed on the numbers.
  - iii. If the user enters `*`, multiplication is performed on the numbers.
  - iv. If the user enters `/`, division is performed on the numbers.
  - v. If the user enters any other character, print out error message
- d. For the output, display `>>` the two numbers, the operator, the result.
- e. Loop using the Do-While until user decides to stop.

#### **QUESTION 2**

**[30 Marks]**

**Write a C++ program** to prove the running of the solution.