

Tutorial 4 – Programming I

IT1010 – Introduction to Programming

Semester 1, 2020

Question 1

- i. Draw a flow chart to display your name
- ii. Write a C program to display your name and save the program as *first.c*
- iii. Modify the above program to display the message “Welcome to SLIIT” with each word on a separate line.
(hint: use one printf statement)

Question 2

Write C programs to display the following shapes with asterisks.

```

*****
*           *
*           *
*           *
*           *
*****

```

```

*
* *
* * *
* * * *
* * * * *
* * * * *

```

```

      *
    * * *
  * * * * *
    *
    *
    *

```

Question 3

Draw a flow chart to enter two numbers from the keyboard and display the total. Write a C program for the above flow chart.

Question 4

- i. A bank is giving 10% annual interest rate for customer accounts. Draw a flow chart to enter the balance of an account and calculate the annual interest. Display the annual interest and the new balance after adding the interest.
$$\text{Annual interest} = \text{balance} * \text{annual interest rate}/100$$
- ii. Convert the above flow chart to a C program.