

**Department of Physical Science
Faculty of Applied Science
University of Vavuniya
IT1134(P) – Fundamental of Programming (Practical)**

ICAE-02

Time:45 Minutes

Date: 02.12.2024

Create a folder on your desktop with your “Registration Number” (e.g:2022/IT/01) and save the answers for the following Questions.

1. Write a C++ program that inputs a three-digit integer and displays it as an integer in ascending order of its individual digits.

Sample output of the program is given below:

Enter a three-digit integer: 261

Digits in ascending order: 126

Enter a three-digit integer: 62

Please enter a valid three-digit number!

2. Write a C++ program that prompts the user to choose one of the following patterns to draw. Based on the user's choice, the program should ask for the number of rows and then display the selected pattern. The available patterns are:

1. Right-Angled Triangle
2. Inverted Triangle
3. Square
4. Triangle (Pyramid pattern)

Sample output of the program is given below:

Choose a pattern to draw:

1. Right-Angled Triangle
2. Inverted Triangle
3. Square
4. Triangle(Pyramid pattern)

Enter your choice (1-4): 1

Enter the number of rows: 5

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Enter your choice (1-4): 2

Enter the number of rows: 5

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Enter your choice (1-4): 3

Enter the number of rows: 5

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Enter your choice (1-4): 4

Enter the number of rows: 5

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