

Rajarata University of Sri Lanka

Faculty of Applied Sciences

B.Sc in Information and Communication Technology

ICT 1306 (Object Oriented Programming)

Practical 01: Introduction to C++ Programming

Outline

- Basic Program.
- If else.
- For Loop.
- While Loop.
- Switch case.
- Functions.

Outcome

At the end of this session students should be able to:

- Familiar with the CodeBlocks IDE.
- Get knowledge about the general structure of the C++ programming.
- 1. Write a C++ program to print your own details.

Ex: Name, Age, Birth Day, Address, Gender, School.

- 2. Write C++ program for a Grading System.
 - a. Print a banner "Welcome to My School Grading System" in the first line.
 - b. Prompt user to enter his/her name.
 - c. Prompt user to enter Subject Name and the Marks for 5 subjects.
 - d. Calculate the average value of the 5 marks and display it in the following format Ex: "The average of your mark is: XXX"
 - f. Calculate the grade based on the following

criteria Average value > 85 -> "A"

Average value > 70 -> "B"

Average value > 50 -> "C"

Average value > 25 -> "D"

Average value < 25 -> "W"

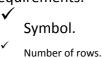
g. Display "Hi" (User's Name), you have obtained the grade: (Grade)

Ex: Hi Sam, you have obtained the grade: A

(Hint: Use if else statements)

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3. Get the following information from the user as a user input and print the design according to that requirements.



Ex: Following design is printed as the details given by the user. (Note: Number of stars equals to the row number)

Symbol: *

Number of rows: 5



(Hint: Use for loops)

4. Write a program C++, which allow user to enter three integer values. Then print the reverse of those numbers.

(Hint: Use while loop)

- 5. Develop a basic calculator.
 - a. Prompt user to enter two numbers.
 - b. Prompt user to enter calculation.

(Hint: Use Switch case)

6. Develop above 5th question by using functions.

Take Home Assignment

1. Get the following information from the user as a user input and print the design according to that requirements.



Ex: Following design is printed as the details given by the user. (Note: Number of stars equals to the row number)

Symbol: * **
Number of rows: 5 **

Next Practical: Classes and Objects