**TRINITY INTERNATIONAL SS & COLLEGE**

**Dillibazar Height, Kathmandu, Nepal**

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**LAB WORK #2: C-Programming**

**(COMPUTER SCIENCE)**

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**DATE : [2079/10/20] PRAVEEN KOIRALA**

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**2. Objective**

The main objectives of the lab work are as follows:

1. To get familiar with different programming constructs.
2. To understand and apply conditional statements.
3. To understand nested if and create complex statements.
4. To understand and apply Switch statement.

**3. Theoretical Background**

The three programming constructs are:

1. sequence is the order in which instructions occur and are processed.
2. selection determines which path a program takes when it is running.
3. iteration is the repeated execution of a section of code when a program is running.

Conditional Statements in C: Conditional Statements are defined as the statements which tend to change the course of program according the to the condition specified during the writing of program. For example. If…elseif…else… is used in C as a conditional Statement

Syntax of If statement: if (test expression){

// code

}

Nested If: Nested IF functions, meaning one IF function inside of another, allows you to test multiple criteria and increases the number of possible outcomes. We want to determine a student's grade based on their score. If Bob's score in B2 is greater than or equal to 90, return an A.

Switch Statement: a switch statement is a type of selection control mechanism used to allow the value of a variable or expression to change the control flow of program execution via search and map.

Syntax of Switch Statement: switch( expression ){

case value-1: Block-1;

Break;

case value-n: Block-n;

Break;

default: Block-1;

Break;

}

Statement-x;

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| --- | --- |
| Algorithm | Flowchart |
| Source Code | |