INSTITUTE OF ENGINEERING
ADVANCED COLLEGE OF ENGINEERING
& MANAGEMENT
KUPONDOLE, LALITPUR
(AFFILATED TO TRIBHUVAN UNIVERSITY)

LAB REPORT
LAB NO.: 3
SUBJECT: C PROGRAMMING

SUBMITTED BY:

NAME: ASHWANI KUMAR CHAUDHARY
ROLL NO.: 019
DATE: 2077/01/31

SUBMITTED TO:

DEPARTMENT OF
COMPUTER &
ELECTRONICS

TITLE: Introduction to Branching statements.

Objective

To be familear with branching/control statements in C- programming.

THEORY.

Normally, branching means deciding what action to take. Therefore, these statement which helps to jump from one statements to another if a given condition is true or not is called Branching statement.

Types of Branching statement:-

i) if statement
ii) Switch statement
iii) Conditional operator statement
iv) goto statement.
v) Control statement

i) If statement:- It is a decision making statement & is used to control the flow of execution of statement. It is two way decision making statement.

The simple of if statement is.

```
if (expression)
{
    statement
} else {
    statement
}.
```

(ii) Switch Statement.

The switch statement tests the value of given expression against a lot of case value & when match is found, a block of statement associated with that case is executed.

```
switch (expression)
{
    case 1 : statement Break
    case 2 :  statement Break
}
```

(iii) Conditional Operator Statement.

The conditional operator is used to make two ways decision. This operator is a combination of "?" and ":".

Eg:
conditional expression? expression 1 : expression 2.

(iv) Go to statement.

C support the goto statement which is a unconditional branching statement.

go to label ;   label statement
- - - - -   - - - -
- - - - .   - - - -
                    - - - -

label statement   goto state-
                          ment

(y) Control Statement.

A control statement is a statement that detensen whether other statements will be executed if statement or decide which of two statement to execute.