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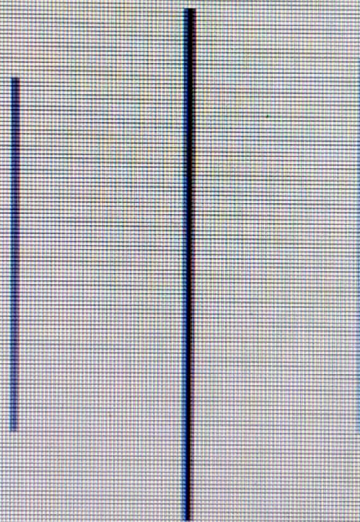# ADVANCED COLLEGE OF ENGINEERING & MANAGEMENT
KUPONDOLE, LALITPUR
(AFFILATED TO TRIBHUVAN UNIVERSITY)

LAB REPORT
LAB NO.: 5
SUBJECT: C PROGRAMMING

SUBMITTED BY:

NAME: ASHWANI KUMAR CHAUDHARY
ROLL NO.: 019
DATE: 2078/03/

SUBMITTED TO:

DEPARTMENT OF
COMPUTER &
ELECTRONICS

TITLE :- User Defined function & reaursive function objective

Objective :- To learn about user defined function & recursive function.

Theory:-

(i) User defined function

A function is a block of code that perniform on specific task c. allows you to define function according to your need. These function are known as defined a users focas user deffined function. In order to make user use of defined function, we need to these element related to function.

1. function definction
2. function cell
3. function decleration.

1. function definction

It constains of block of code to perform a specific task. syntax of function definction return type function None (type1 argument I, type. 2 argument I---)

{

   body of function

}

When a function is called the contract of the program is translated to the function definction & the compler, starts executing the codes inside the body of a function.

2. function call.

→ A function can be called by simply using that function name. followed by the list of actual parameter & argument) IF any enclosed in parenthesis when the compiler encounters a function call, the control is transfered to the function. This function is then executed by line as described and a value is returned when a return stament is encountered.

Syntax of function call

function name (argument 1, argument 2, - - -)

3. function prototype (defin decleration).

→ A function prototype is simply the decleration of function that specifie function name, parameter & return type. It does not contain function body. A function prototype gives information to the compiler that the function may later be used in the program.

Syntax

function name (type 1, argument 1, type 2 argument 2 -)

ii) Recursion function. (Recursive function).

It is the process of repeating item in a similar way. In programming language if a program allows you to call a function inside the some function, then it is called recursive call of the function

While using recursive function, programmer need to be carefull to define an exits condition from the function, other wise it will go on infinite loop.