INSTITUTE OF ENGINEERING ADVANCED COLLEGE OF ENGINEERING & MANAGEMENT

KUPONDOLE, LATTIPUR (AFFILATED TO TRIBHUVAN UNIVERSITY)



LAB REPORT
LAB NO.: 8
SUBJECT: C PROGRAMMING

SUBMITTED BY:

NAME: ASHWANI KUMAR CHAUDHARY

ROLL NO.: 019

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Pointers in C-programming

Objective

To understand programming with pointer & Function call by reference

Theory

A pointer in c-language is a variable which hold the address of another variable of some data type. Pointers are used to access memory of manipulate the content of that address.

Declaration of Pointer variables

Syntax.

Data - Type. * Mariable _ Mames.

Initialiation of pointer vuriables.

Pointer initallization is the process of assigning address of a runiable to a pointer variable. Pointer raniable con only contains address of a runiable of the same data type.

Fxample:

Void main()

int a=6;

int *6;

P = &0;

Dereference operater

The dereterence operator or indirection operator, sometime denoted by * is unousy operator found in C-lunguage it operators on the pointer variable return valve equivalent to the value at the pointer address. It is wed in these way.

- · De claration
- · Derefence operator.

Bad pointer

A bod pointer is a pointer which contain a random address fort like en uninitized int variable which storts out with a random int value.

Null pointer

A null pointer is a pointer which point nothing. It is used to pass a null painter to function orgument when we don't won't to pass any valled memory oddress.

Function cell by reference.

To poss a value by reference, argument pointer are passed to function just like any other values so, accordingly we need to declare the function parameter as pointer type.

Example, void swop (int *4, int *6). a int c; tc = *a, * a = x b; *b = c', return o;