**Ex 1: Introduction to pointers. Call by Value and Call by reference.**

**Call by value**

#include <stdio.h>

// function declaration

void cbv(int);

int main(void) {

// integer variable

int num = 10;

// print value of num

printf("Value of num before function call: %d\n", num);

// pass by value

cbv(num);

// print value of num

printf("Value of num after function call: %d\n", num);

getch();

return 0;

}

// function definition

void cbv (int n) {

n = n + 10;

printf("Inside cbv (): Value %d\n", n);

}

**Output:**

**Call by reference**

#include <stdio.h>

// function declaration

void cbr (int \*);

int main(void) {

// integer variable

int num = 10;

// print value of num

printf("Value of num before function call: %d\n", num);

// pass by reference

cbr (&num);

// print value of num

printf("Value of num after function call: %d\n", num);

getch();

return 0;

}

// function definition

void cbr (int \*n) {

\*n = \*n + 10;

printf("Inside cbr (): Value %d\n", \*n);

}

**Output:**