**EXPT. NO: 10**

**AIM:**

Program to differentiate pass by value and pass by reference by swapping two numbers using function.

**Solution:**

**Program**

**CALL BY VALUE**

//C program to swap two numbers using call by value

#include <stdio.h>

//Swap function definition

void swap(int num1, int num2) {

    int temp;

    printf("In Function values before swapping: %d %d\n", num1, num2);

    temp = num1;

    num1 = num2;

    num2 = temp;

    printf("In Function values after swapping: %d %d\n\n", num1, num2);

}

//main() function definition

int main() {

    int n1, n2;

    //Input two integers from user

    printf("Enter two numbers: ");

    scanf("%d%d", &n1, &n2);

    //Print values of n1 and n2 in main before swapping

    printf("In Main values before swapping: %d %d\n\n", n1, n2);

    //Function call to swap n1 and n2

    swap(n1, n2);

    //Print values of n1 and n2 in main after swapping

    printf("In Main values after swapping: %d %d", n1, n2);

    return 0;

}