**EXPT. NO: 10**

**AIM:**

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

**Solution:**

**Program**

**CALL BY REFERENCE**

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

#include <stdio.h>

/\*num1 - pointer variable to accept memory address

 num2 - pointer variable to accept memory address\*/

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 declaration

int main() {

    int n1, n2;

    printf("Enter two numbers: ");

    scanf("%d%d", &n1, &n2);

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

    /\*&n1 - & evaluate memory address of n1

    &n2 - & evaluate memory address of n2\*/

    swap(&n1, &n2);

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

    return 0;

}