S.No: 6	Exp. Name: *Write a C program to Swap Two numbers with out using a Third variable*	Date:2022-12-31

Aim:

Write a program to swap two integer values without using a third variable.

During execution, the program should print the following message on the console:

```
Enter two integers :
```

For example, if the user gives the **input** as 99 89 :

```
Enter two integers : 99 89
```

Then the program should **print** the result as:

```
Before swapping a = 99, b = 89
After swapping a = 89, b = 99
```

Note: Use the **printf()** function with a **newline** character (\n) at the end.

Source Code:

Program311.c

```c
#include<stdio.h>
void main()
{
    int a,b;
    printf("Enter two integers: ");
    scanf("%d%d" ,&a, &b);
    printf("Before swapping a = %d, b = %d\n" ,a,b);
    a=a+b;
    b=a-b;
    a=a-b;
    printf("After swapping a = %d, b = %d\n",a,b);
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter two integers: 23 67
Before swapping a = 23, b = 67
After swapping a = 67, b = 23

Test Case - 2
User Output
Enter two integers: 99 89
Before swapping a = 99, b = 89
After swapping a = 89, b = 99

Test Case - 3
User Output
Enter two integers: 77 78
Before swapping a = 77, b = 78
After swapping a = 78, b = 77