2022-2026-CSE-B

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 $(\setminus n)$ at the end.

Source Code:

```
Program311.c
```

```
// c program to swap two integer values without using a third variable
// author by naveena
// taught by faculty
// date:24/12/2022
// filename:numbersswapping.c
#include<stdio.h>
int 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
```

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

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