

## **BCSE-506L (Performance Analysis of Programming Languages Lab)**

### **EXPERIMENT NO. 2**

**AIM:** Get two numbers as input from the user through console and swap the values of two numbers without using a temporary variable and display the same.

#### **ALGORITHM:**

SWAP (A, B)

STEP 1: Take the inputs A and B from the command line arguments. STEP 2:  $A = A + B$

STEP 3:  $B = A - B$

STEP 4:  $A = A - B$

STEP 5: Apply process to A.

STEP 6: Apply process to B.

STEP 7: Exit

#### **CODE:**

```
import java.util.Scanner;
public class swapingWithoutTemp {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int a ,b;
        System.out.println("Enter two numbers:");
        a = sc.nextInt();
        b = sc.nextInt();
        a = a+b;
        b = a-b;
        a = a-b;
        System.out.println("After swapping:"+ a + " " + b);
    }
}
```

```
index.php  result.php  checkout.php 2  assignment
rs > J assignment2.java
1  import java.util.Scanner;
2  public class swapingWithoutTemp {
   Run | Debug
3  public static void main(String[] args) {
4  Scanner sc = new Scanner(System.in);
5  int a ,b;
6  System.out.println("Enter two numbers:");
7  a = sc.nextInt();
8  b = sc.nextInt();
9  a = a+b;
10 b = a-b;
11 a = a-b;
12 System.out.println("After swapping:"+ a + " " + b);
13
14 }
```

**Input: 24 16**

**Output:**

```
Output
java -cp /tmp/Cz7oNPMo1z swapingWithoutTemp
Enter two numbers:16 24
After swapping:24 16
```

**Input: 85 45**

#### Output

```
java -cp /tmp/Cz7oNPMo1z swapingWithoutTemp
Enter two numbers:
45 85
After swapping:85 45
```

**\*Submitted by – Bajrang (11212766)**

**BTech 3CSE-B3**