

JULY 24 - ASSIGNMENT

QUESTION 2:

```
import java.util.*;

public class Main {

    public static void main(String[] args) throws Exception {

        Scanner sc = new Scanner(System.in);

        System.out.println("Author:T. Iswarya\nSAP ID:51834773");

        System.out.println("Enter the first string:");

        String input = sc.nextLine();

        System.out.println("Enter the second string:");

        String rotation = sc.nextLine();

        if (checkRotatation(input, rotation)) {

            System.out.println(input + " and " + rotation

                + " are rotation of each other");

        } else {

            System.out.println("they are not rotation of another");

        }

        sc.close();

    }

}
```



```
}
```

```
public static boolean checkRotatation(String original, String rotation) {  
    if (original.length() != rotation.length()) {  
        return false;  
    }  

```

```
    String concatenated = original + original;
```

```
    if (concatenated.indexOf(rotation) != -1) {  
        return true;  
    }  

```

```
    return false;  
}  
}
```



Output:

```
× Terminal
Author:T. Iswarya
SAP ID:51834773
Enter the first string:
Ishu
Enter the second string:
Ish
they are not rotation of another

Process finished.
█
```



Question 5:

```
import java.util.Arrays;

class Main
{
    public static void swap(int[] arr, int a, int b)
    {
        int temp = arr[a];
        arr[a] = arr[b];
        arr[b] = temp;
    }

    public static void bubbleSort(int[] arr, int x)
    {
        for (int a = 0; a < x - 1; a++) {
            if (arr[a] > arr[a + 1]) {
                swap(arr, a, a + 1);
            }
        }
        if (x - 1 > 1) {
            bubbleSort(arr, x - 1);
        }
    }
}
```



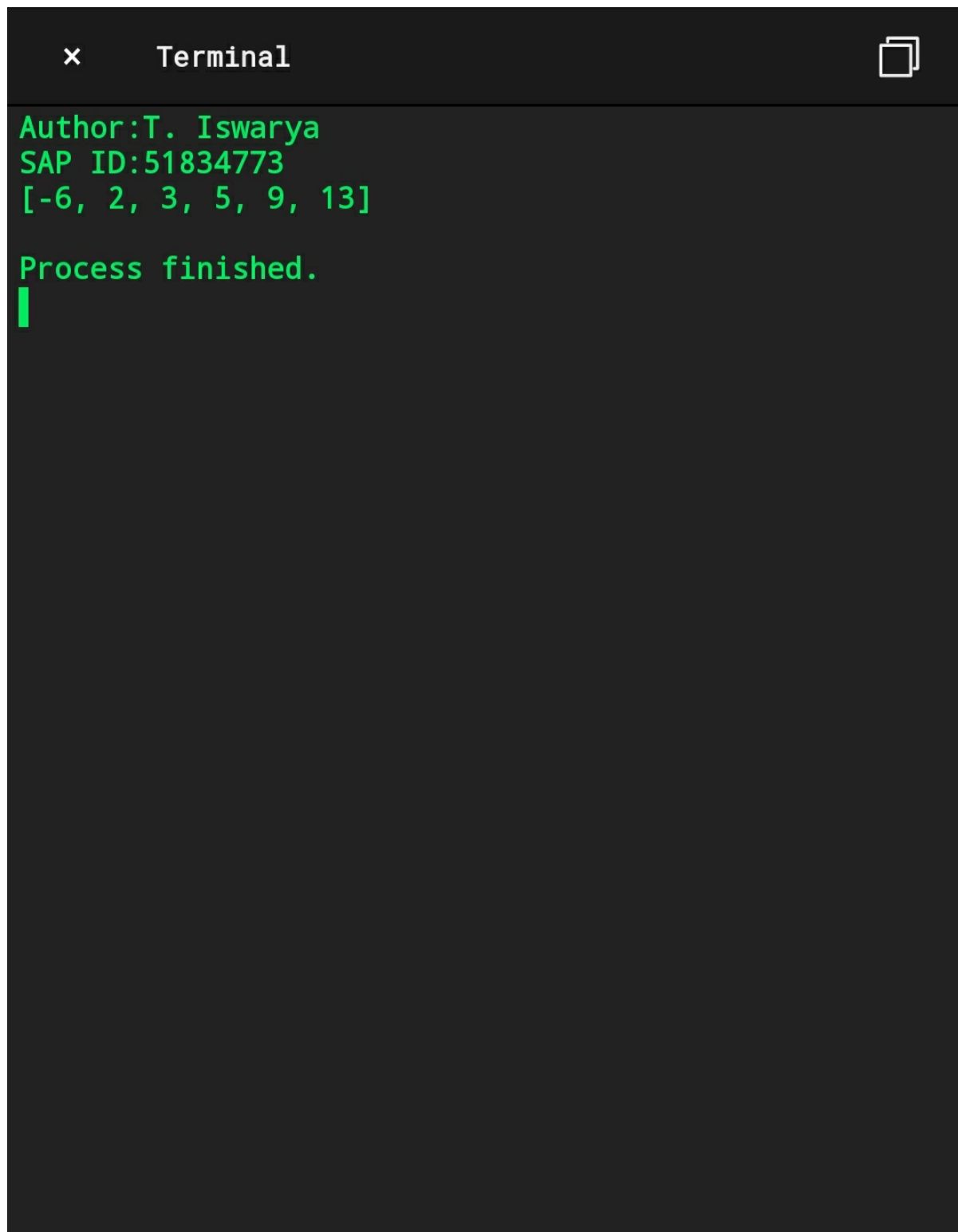
```
public static void main(String[] args)
{
    int[] arr = { 3, 2, 5, 13, 9, -6 };

    bubbleSort(arr, arr.length);

    System.out.println("Author:T. Iswarya\nSAP ID:51834773");
    System.out.println(Arrays.toString(arr));
}
}
```



Output:

A terminal window with a dark background and a title bar that says "Terminal" with a close button (x) on the left and a copy icon on the right. The output is displayed in green text. It shows the author's name, SAP ID, an array of numbers, and a completion message.

```
x    Terminal    [copy icon]

Author:T. Iswarya
SAP ID:51834773
[-6, 2, 3, 5, 9, 13]

Process finished.
|
```