

Program no2:

AIM : Read 2 matrices from the console and perform matrix addition.

CODE:

```
import java.util.Scanner;
public class AddTwoMatrix {
    public static void main(String args[])
    {
        int m, n, c, d;
        Scanner in = new Scanner(System.in);

        System.out.println("Enter the number of rows and columns of matrix");
        m = in.nextInt();
        n = in.nextInt();

        int first[][] = new int[m][n];
        int second[][] = new int[m][n];
        int sum[][] = new int[m][n];

        System.out.println("Enter the elements of first matrix");

        for (c = 0; c < m; c++)
            for (d = 0; d < n; d++)
                first[c][d] = in.nextInt();

        System.out.println("Enter the elements of second matrix");

        for (c = 0 ; c < m; c++)
            for (d = 0 ; d < n; d++)
                second[c][d] = in.nextInt();

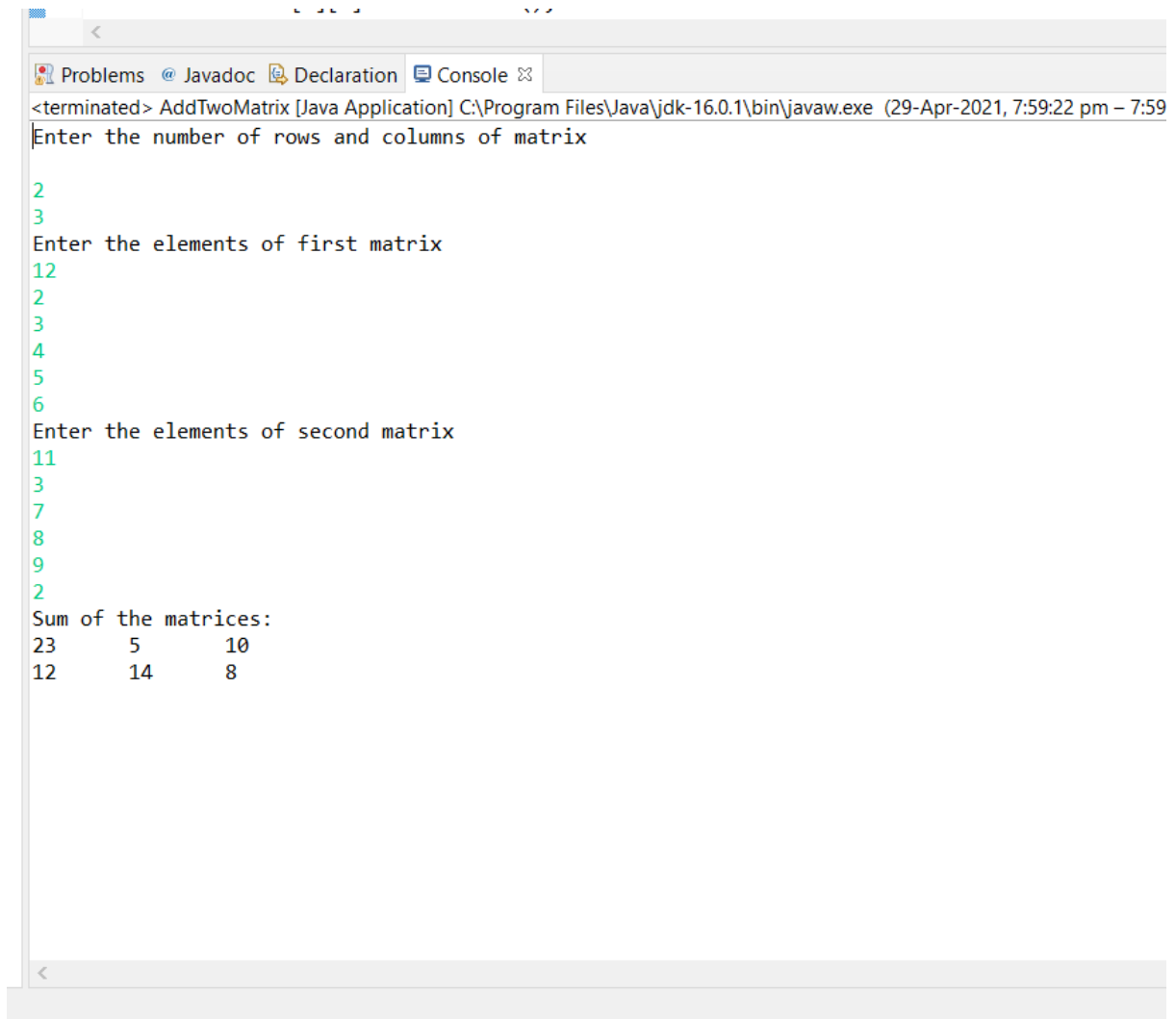
        for (c = 0; c < m; c++)
            for (d = 0; d < n; d++)
                sum[c][d] = first[c][d] + second[c][d]; //replace '+' with '-' to
subtract matrices

        System.out.println("Sum of the matrices:");

        for (c = 0; c < m; c++)
        {
            for (d = 0; d < n; d++)
                System.out.print(sum[c][d] + "\t");

            System.out.println();
        }
    }
}
```

OUTPUT



```
<terminated> AddTwoMatrix [Java Application] C:\Program Files\Java\jdk-16.0.1\bin\javaw.exe (29-Apr-2021, 7:59:22 pm - 7:59)
Enter the number of rows and columns of matrix
2
3
Enter the elements of first matrix
12
2
3
4
5
6
Enter the elements of second matrix
11
3
7
8
9
2
Sum of the matrices:
23    5    10
12    14    8
```