2. Accept two n x m matrices. Write a Java program to find addition of these matrices.

MatrixAddition.java

```java
import java.util.Scanner;
//Author -> ITVoyagers, visit -> itvoyagers.in
class MatrixAddition
{
    public static int[][] matrix()
    {
        Scanner s = new Scanner(System.in);
        int m[][]= new int[2][2];
        for(int i=0; i < 2; i++)
        {
            for(int j=0; j < 2; j++)
            {
                m[i][j] = s.nextInt();
                System.out.print("\t");
            }
            System.out.print("\n");
        }
        //Author -> ITVoyagers, visit -> itvoyagers.in
        return m;
    }
```

```java
//Author -> ITVoyagers, visit -> itvoyagers.in
    public static void main(String[] args)
    {
        int a[][] = new int[2][2];
        int b[][] = new int[2][2];
        int res[][] = new int[2][2];
        System.out.println("\n Enter values for first matrix. \t");
        a = matrix();
        System.out.println("\n Enter values for second matrix. \t");
        b = matrix();
//Author -> ITVoyagers, visit -> itvoyagers.in
        System.out.println("\n Resultant matrix. \t");
        for(int i=0; i < 2; i++)
        {
            for(int j=0; j < 2; j++)
            {
                res[i][j] = a[i][j] + b[i][j];
                System.out.print("\t" + res[i][j] + "\t");
            }
            System.out.print("\n");
        }
    }//Author -> ITVoyagers, visit -> itvoyagers.in
}
```

Output:

```
 Enter values for first matrix.
1
        2

3
        4


 Enter values for second matrix.
5
        6

7
        8


 Resultant matrix.
        6               8
        10              12
```