

**Objective 2a): Write a program to print addition of 2 matrices in Java.**

```
import java.util.Scanner;

public class ArrayAddition {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.println("Enter the dimension:");

        int row = sc.nextInt();

        int col = sc.nextInt();

        int a[][]= new int[row][col];

        int b[][]= new int[row][col];

        System.out.println("Enter the array a:");

        for(int i =0;i<row;i++) {

            for(int j=0;j<col;j++)

                a[i][j] = sc.nextInt();

        }

        System.out.println("Enter the array b:");

        for(int i =0;i<row;i++) {

            for(int j=0;j<col;j++)

                b[i][j] = sc.nextInt();

        }

        int c[][] = new int[row][col];

        for(int i =0;i<row;i++) {

            for(int j=0;j<col;j++)

                c[i][j]=a[i][j]+b[i][j];

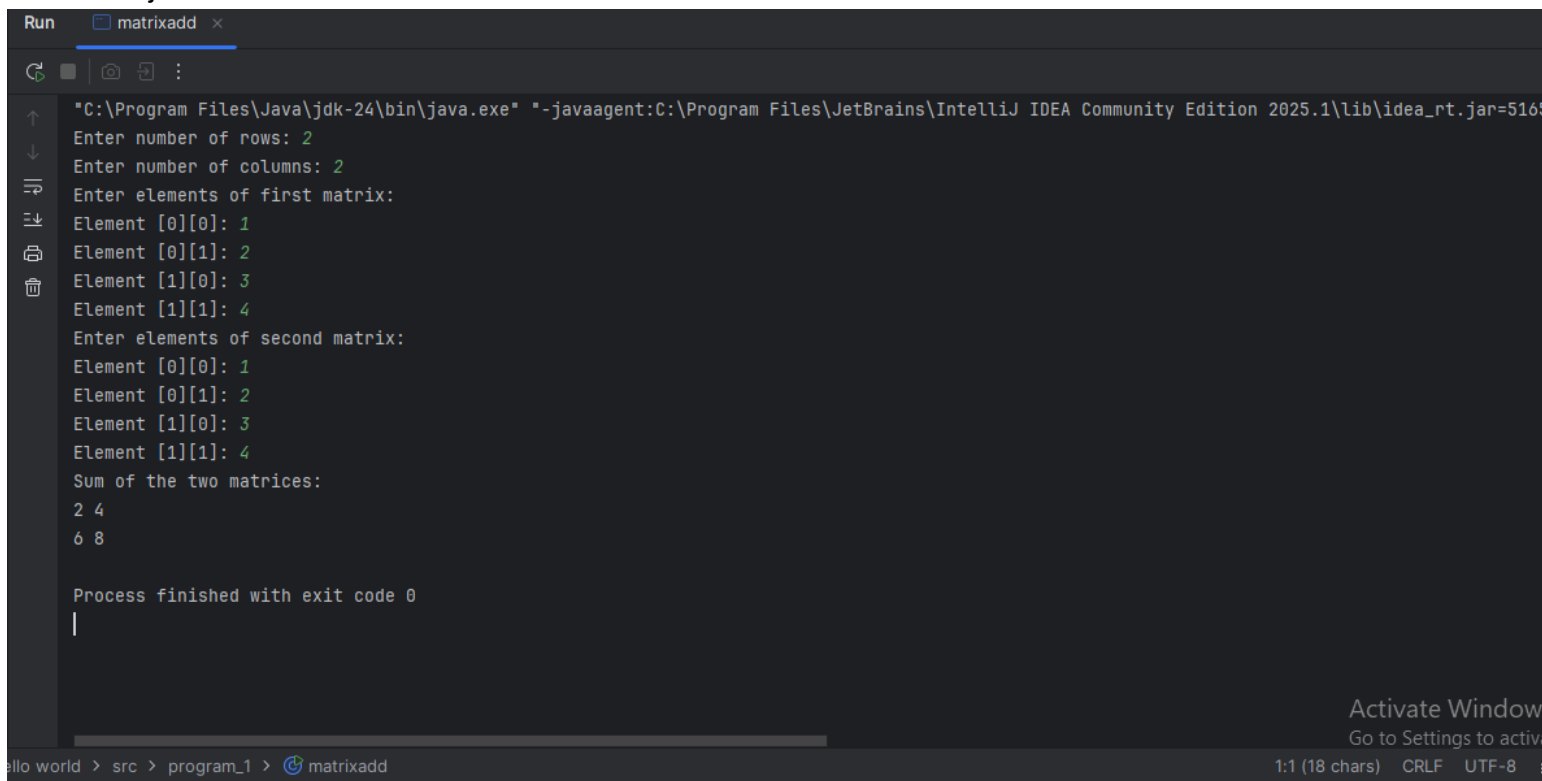
        }

    }

}
```

```
System.out.println("result is:");  
for(int i =0;i<row;i++) {  
    for(int j=0;j<col;j++)  
        System.out.print(c[i][j]+" ");  
    System.out.println();  
}  
sc.close();  
  
}
```

```
}
```



```
Run  matrixadd x  
"C:\Program Files\Java\jdk-24\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2025.1\lib\idea_rt.jar=5168...  
Enter number of rows: 2  
Enter number of columns: 2  
Enter elements of first matrix:  
Element [0][0]: 1  
Element [0][1]: 2  
Element [1][0]: 3  
Element [1][1]: 4  
Enter elements of second matrix:  
Element [0][0]: 1  
Element [0][1]: 2  
Element [1][0]: 3  
Element [1][1]: 4  
Sum of the two matrices:  
2 4  
6 8  
  
Process finished with exit code 0  
|  
  
Hello world > src > program_1 > matrixadd  
1:1 (18 chars)  CRLF  UTF-8  
Activate Windows  
Go to Settings to activate Windows.
```