OBJECT ORIENTED PROGRAMMING LAB

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Experiment No.: 2

Aim

Read 2 matrices from the console and perform matrix addition.

Procedure

```
import java.util.Scanner;
public class MatrixAddition
{
	public static void main(String args[])
	{
		int row,col,i,j;
		Scanner m = new Scanner(System.in);
		System.out.println("Enter the number of rows");
		row = m.nextInt();
		System.out.println("Enter the number of columns");
		col = m.nextInt();

		int mat1[][] = new int [row][col];
		int mat2[][] = new int [row][col];
		int sum[][] = new int [row][col];

		System.out.println("Enter the elements in matrix1");
		for(i=0; i<row; i++)
		{
			for(j=0; j<col; j++)
				mat1[i][j] = m.nextInt();
			System.out.println("\n");
		}

		System.out.println("Enter the elements in matrix2");
		for(i=0; i<row; i++)
		{
			for(j=0; j<col; j++)
				mat2[i][j] = m.nextInt();
			System.out.println("\n");
		}

		for(i=0; i<row; i++)
			for(j=0; j<col; j++)
				sum[i][j] = mat1[i][j] + mat2[i][j];
			System.out.println("sum of matrices given:-");

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

```
                    for(j=0; j<col; j++)
                {
                        System.out.print(sum[i][j]+"\t");
                }
                    System.out.println("\n");
            }

        }
}
```

Output Screenshot

```
D:\Javaprograms>java MatrixAddition
Enter the number of rows
2
Enter the number of columns
2
Enter the elements in matrix1
17
18


33
13


Enter the elements in matrix2
7
3


31
77


sum of matrices given:-
24      21

64      90
```