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Practical No -5

Aim- To perform addition of two matrix

Input:

```java
package java_practicals;
import java.util.Scanner;

public class Addition
{
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int[][] a = new int[3][3];
        System.out.println("Enter elements of array : ");
        for(int i=0 ; i<3 ; i++)
        {
            for(int j=0 ; j<3 ; j++)
            {
                a[i][j] = sc.nextInt();
            }
        }
        System.out.println("Elements of first array are : ");
        for(int i=0 ; i<3 ; i++)
        {
            System.out.print("[");
            for(int j=0 ; j<3 ; j++)
            {
                System.out.print(a[i][j]+" ");
            }
            System.out.print("]");
            System.out.println();
        }

        int[][] b = new int[3][3];
        System.out.println("Enter elements of array : ");
        for(int i=0 ; i<3 ; i++)
        {
            for(int j=0 ; j<3 ; j++)
            {
                b[i][j] = sc.nextInt();
            }
        }
        System.out.println("Elements of second array are : ");
        for(int i=0 ; i<3 ; i++)
        {
            System.out.print("[");
            for(int j=0 ; j<3 ; j++)
            {
                System.out.print(b[i][j]+" ");
            }
            System.out.print("]");
            System.out.println();
```

```java
        }

        int[][] c = new int[3][3];
        for(int i=0 ; i<3 ; i++)
        {
            for(int j=0 ;j<3 ;j++)
            {
                c[i][j] = a[i][j]+b[i][j];
            }
        }
        System.out.println("Addition matrix is : ");
        for(int i=0 ; i<3 ; i++)
        {
            System.out.print("[");
            for(int j=0 ;j<3 ;j++)
            {
                System.out.print(c[i][j]+" ");
            }
            System.out.print("]");
            System.out.println();
        }

    }

}
```

Output:

```
Enter elements of array :
2 2 4 1 1 3 2 3 4
Elements of first array are :
[2 2 4 ]
[1 1 3 ]
[2 3 4 ]
Enter elements of array :
2 1 0 1 0 1 1 1 0
Elements of second array are :
[2 1 0 ]
[1 0 1 ]
[1 1 0 ]
Addition matrix is :
[4 3 4 ]
[2 1 4 ]
[3 4 4 ]
```