

**LAB CYCLE 1:****DATE:29/4/2021****AIM:** Read 2 matrices from console and perform matrix addition.**PROGRAM CODE:**

```
import java.util.Scanner;

class AddMatrix
{
    public static void main(String args[])
    {
        int row, col,i,j;
        Scanner in = new Scanner(System.in);

        System.out.println("Enter the number of rows");
        row = in.nextInt();

        System.out.println("Enter the number columns");
        col = in.nextInt();

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

        System.out.println("Enter the elements of matrix1");

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

            for ( j= 0 ; j < col ;j++ )
                mat1[i][j] = in.nextInt();

            System.out.println();
        }
        System.out.println("Enter the elements of matrix2");

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

```
for ( j= 0 ; j < col ;j++ )
mat2[i][j] = in.nextInt();

System.out.println();
}

for ( i= 0 ; i < row ; i++ )
for ( j= 0 ; j < col ;j++ )
res[i][j] = mat1[i][j] + mat2[i][j] ;

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

for ( i= 0 ; i < row ; i++ )
{
for ( j= 0 ; j < col ;j++ )
System.out.print(res[i][j]+"\\t");

System.out.println();
}

}
}
```