1. Develop a JAVA program to add TWO matrices of suitable order N (The value of N should be read from command line arguments).

Add.java

```
import java.util.Scanner;
public class Add
  public static void main(String[] args)
   if (args.length != 1)
      System.out.println("Usage: java MatrixAddition <order_M_N>");
         return;
    int m, n; //Declare matrix size
    Scanner scan = new Scanner(System.in);
    m = Integer.parseInt(args[0]);//Initialize first matrix size
    n = Integer.parseInt(args[1]); //Initialize second matrix size
    int a[][] = new int[m][n]; //Declare first matrix
    int b[][] = new int[m][n]; //Declare second matrix
    int c[][] = new int[m][n]; //Declare third matrix
      //Initialize the first matrix
    System.out.println("Enter all the elements of first matrix:");
    for (int i = 0; i < m; i++)
      {
         for (int j = 0; j < n; j++)
           a[i][j] = scan.nextInt();
    System.out.println("");
       //Initialize the second matrix
    System.out.println("Enter all the elements of second matrix:");
    for (int i = 0; i < m; i++)
      {
         for (int j = 0; j < n; j++)
           b[i][j] = scan.nextInt();
       }
```

```
//Loop to add matrix elements
    for (int i = 0; i < m; i++)
      {
         for (int j = 0; j < n; j++)
         {
             c[i][j] = a[i][j] + b[i][j];
        }
       }
    //Print the resultant matrix
    System.out.println("Matrix after addition:");
    for (int i = 0; i < m; i++)
      {
         for (int j = 0; j < n; j++)
           System.out.print(c[i][j]+"");
         System.out.println("");
      }
    }
}
OUTPUT:
Java Add 3 3
Enter all the elements of first matrix:
123
456
789
Enter all the elements of second matrix:
987
654
321
Matrix after addition:
10 10 10
10 10 10
10 10 10
```