Co1-2

```
import java.util.Scanner;

class Matrix {
    int col;
    int row;
    int[][] matrix;
    Matrix(int r, int c) {
          col = c;
          row = r;
          matrix = new int[row][col];
                              }
    void matrixCreation(Scanner read)
    {
       for (int i = 0; i < row; i++)
        {
          for (int j = 0; j < col; j++)
           {
             matrix[i][j] = read.nextInt();
           }
        }
   }
  }
public class MetrixAddition {
public static void addMatrix(Matrix m1,
Matrix m2, Matrix result)
 {
     for (int i = 0; i < m1.row; i++)
      {
```

```
    {
        for (int j = 0; j < m1.col; j++)
        {
         result.matrix[i][j] = m1.matrix[i][j] +
m2.matrix[i][j];
        }
    }
}
   public static void displayMatrix(Matrix
result) {
         System.out.println("The metrix after
adding given 2 matrices:");
    for (int i = 0; i < result.row; i++)
    {
        for (int j = 0; j < result.col; j++)
        {

System.out.print("\t" + result.matrix[i][j]);
        }

System.out.print("\n");

}

   }
   public static void main(String[] args) {
         int row, col;
     Scanner read = new Scanner(System.in);
  System.out.print("Enter Number of Rows:");
        row = read.nextInt();
```

```
System.out.print("Enter Number of
columns:");
        col = read.nextInt();
        Matrix m1 = new Matrix(row, col);
        Matrix m2 = new Matrix(row, col);

Matrix result = new Matrix(row, col);

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

m1.matrixCreation(read);

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

m2.matrixCreation(read);

addMatrix(m1, m2,result);

displayMatrix(result);

 }

}
```

Output:-

```
Enter Number of Rows:2
Enter Number of Columns:2
Enter the elements of matrix1:
4
3
2
1
Enter the elements of matrix2:
6
5
7
4
The matrix after adding given 2 matrices:
   10  8
    9  5
```