Qu 11. Write a Java Program to do product of 2 matrices of 3 rows and 3 columns.

Program:

package collection;

public class MatMul {

int[][] a={{1,1,2},{2,1,1},{1,1,1}};

int[][] b={{1,2,3},{2,1,1},{1,1,2}};

int[][] c = new int[3][3];

void dis(int[][] a){

System.out.println("Matrix");

for(int i=0;i<3;i++){

for(int j=0;j<3;j++){

System.out.print(a[i][j]+"\t");

}

System.out.println();

}}

void mul(){

for(int i=0;i<3;i++){

for (int j=0;j<3;j++){

c[i][j]=((a[i][j]\*b[0][j])+(a[i][j]\*b[1][j])+(a[i][j]\*b[2][j]));

}

}

}

public static void main(String arg[]){

MatMul obj = new MatMul();

System.out.println("------------------------------Matrix 1----------------------");

obj.dis(obj.a);

System.out.println("------------------------------Matrix 2----------------------");

obj.dis(obj.b);

obj.mul();

System.out.println("------------------------------Multiplication-----------------");

obj.dis(obj.c);

}

}

Output:

run:

------------------------------Matrix 1----------------------

Matrix

1 1 2

2 1 1

1 1 1

------------------------------Matrix 2----------------------

Matrix

1 2 3

2 1 1

1 1 2

------------------------------Multiplication-----------------

Matrix

4 4 12

8 4 6

4 4 6

BUILD SUCCESSFUL (total time: 0 seconds)