

MultiplyMatrix.java

```
1 package MatrixMultiplication;
2 import java.io.*;
3
4 public class MultiplyMatrix {
5
6     public static void main(String args[]) throws NumberFormatException, IOException
7     {
8         BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
9
10        int num1[][] = new int[4][4];
11        int num2[][] = new int[4][4];
12        int num3[][] = new int[4][4];
13        int x,y,z;
14
15        //Program for First Matrix
16
17        System.out.println("Please, enter First Matrix");
18        for(x=0;x<4;x++)
19        {
20            for(y=0;y<4;y++)
21            {
22                num1[x][y] = Integer.parseInt(br.readLine());
23            }
24        }
25        for(x=0;x<num1.length;x++)
26        {
27            for(y=0;y<4;y++)
28            {
29                System.out.print(" " + num1[x][y]);
30            }
31            System.out.println();
32        }
33
34        //Program for Second Matrix
35
36        System.out.println("Please, enter Second Matrix");
37        for(x=0;x<4;x++)
38        {
39            for(y=0;y<4;y++)
40            {
41                num2[x][y] = Integer.parseInt(br.readLine());
42            }
43        }
44        for(x=0;x<num2.length;x++)
45        {
46            for(y=0;y<4;y++)
47            {
48                System.out.print(" " + num2[x][y]);
49            }
50            System.out.println();
51        }
52
53        //Program for Multiplication
54        for(x=0;x<4;x++)
55        {
56            for(y=0;y<4;y++)
57            {
```

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```
58         num3[x][y] = 0;
59         for(z=0;z<4;z++)
60         {
61             num3[x][y] = num3[x][y] + (num1[x][z]*num2[z][y]);
62         }
63     }
64 }
65
66 System.out.println("The Result of your Multiplication is: ");
67
68 //Program for Result
69 for(x=0;x<4;x++)
70 {
71     for(y=0;y<4;y++)
72     {
73         System.out.print(" " + num3[x][y]);
74     }
75     System.out.println();
76 }
77 }
78
79 }
80
```