



matrix_multi.java x area_finder.java

```
1 import java.util.Scanner;
2 public class matrix_multi {
3     public static void main(String[] args) {
4         int R1,C1,R2,C2,i,j,k;
5         Scanner scan =new Scanner(System.in);
6         System.out.print("Enter ROW and COLUMN size of matrix 1\n");
7         R1=scan.nextInt();
8         C1=scan.nextInt();
9         System.out.print("Enter ROW and COLUMN size of matrix 2\n");
10        R2=scan.nextInt();
11        C2=scan.nextInt();
12        int MAT1[][]=new int[R1][C1];
13        int MAT2[][]=new int[R2][C2];
14        int MAT3[][]=new int[R1][C2];
15        if (R1 == C2) {
16            System.out.print("Enter elements of Matrix 1\n");
17            for (i=0; i<R1; i++) {
18                for(j=0; j<C1;j++)
19                    MAT1[i][j]=scan.nextInt();
20            }
21            System.out.print("Enter elements of Matrix 2\n");
22            for (i=0;i<R2;i++)
23                for(j=0;j<C2;j++)
24                    MAT2[i][j]=scan.nextInt();
25        }
26        for (i=0; i<R1; i++) {
27            for(j=0; j<C2; j++) {
28                MAT3[i][j] = 0;
29                for(k=0; k<C1; k++)
30                    MAT3[i][j] += MAT1[i][k] * MAT2[k][j];
31            }
32        }
33        System.out.print("The product of 2 matrices is:\n");
34        for(i=0; i<R1; i++) {
35            for(j=0; j<C2; j++) {
36                System.out.print("\t");
37                System.out.print(MAT3[i][j]);
38            }
39            System.out.print("\n");
40        }
41    }
42    else System.out.print("Product cannot be found; Matrix order error");
43 }
44 }
45 }
```

Problems Declaration Console x Javadoc

<terminated> matrix_multi [Java Application] C:\Users\SJCET\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x

Enter ROW and COLUMN size of matrix 1

2

2

Enter ROW and COLUMN size of matrix 2

2

2

Enter elements of Matrix 1

2

2

2

2

Enter elements of Matrix 2

2

2

2

2

The product of 2 matrices is:

8

8

8

8

Activate Windows

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Writable

Smart Insert

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