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Interactive Java Course

Main.java

Run

```
40          System.out.println("\nEnter values for matrix B : ");
41          for (int i = 0; i < row2; i++)
42          {
43              for (int j = 0; j < col2; j++)
44              {
45                  b[i][j] = s.nextInt();
46              }
47          }
48
49          System.out.println("\nMatrix Addition: ");
50          for (int i = 0; i < row1; i++)
51          {
52              for(int j = 0 ; j < col1 ; j++)
53              {
54                  c[i][j] = a[i][j] + b[i][j];
55                  System.out.print(c[i][j] + " ");
56              }
57              System.out.println();
58          }
59      }
60  }
61  }
```

Output

Clear

```
java -cp /tmp/LdAaKs7fP9 matrixaddition
Enter number of rows in first matrix: 2
Enter number of columns in first matrix: 2
Enter number of rows in second matrix: 2
Enter number of columns in second matrix: 2
Enter values for matrix A :
4
2
3
5
Enter values for matrix B :
3
7
2
4
Matrix Addition:
7 9
5 9
```


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Main.java

Run

```
20          System.out.print("Enter number of columns in second
                matrix: ");
21          col2 = s.nextInt();
22
23          if (col1 != col2 || row1 != row2) {
24              System.out.println("Matrix Addition is not possible"
                    );
25              return;
26          }
27
28          int a[][] = new int[row1][col1];
29          int b[][] = new int[row2][col2];
30          int c[][] = new int[row1][col1]
31
32          System.out.println("\nEnter values for matrix A : ");
33          for (int i = 0; i < row1; i++)
34          {
35              for (int j = 0; j < col1; j++)
36              {
37                  a[i][j] = s.nextInt();
38              }
39          }
```

Output

Clear

```
java -cp /tmp/LdAaKs7fP9 matrixaddition
Enter number of rows in first matrix: 2
Enter number of columns in first matrix: 2
Enter number of rows in second matrix: 2
Enter number of columns in second matrix: 2
Enter values for matrix A :
4
2
3
5
Enter values for matrix B :
3
7
2
4
Matrix Addition:
7 9
5 9
```


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Main.java

Run

```
1  import java.util.*;
2
3  public class matrixaddition
4  {
5      public static void main(String args[])
6      {
7          int row1, col1, row2, col2;
8          try (Scanner s = new Scanner(System.in))
9          {
10
11             System.out.print("Enter number of rows in first matrix:
                   ");
12             row1 = s.nextInt();
13
14            System.out.print("Enter number of columns in first matrix
                   : ");
15             col1 = s.nextInt();
16                System.out.print("Enter number of rows in second
                       matrix: ");
17             row2 = s.nextInt();
18
19
20             System.out.print("Enter number of columns in second
```

Output

Clear

```
java -cp /tmp/LdAaKs7fP9 matrixaddition
Enter number of rows in first matrix: 2
Enter number of columns in first matrix: 2
Enter number of rows in second matrix: 2
Enter number of columns in second matrix: 2
Enter values for matrix A :
4
2
3
5
Enter values for matrix B :
3
7
2
4
Matrix Addition:
7 9
5 9
```


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