

Write a program to find the sum of...Online Java CompilerWhatsApp

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Main.java

Run

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

Output

Clear

```
java -cp ./comp/3P0p3Qu8oZ matrixmultiplication
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 :
5
6
7
8
Enter values for matrix B :
8
9
10
11
Matrix multiplication is :
100 111 136 151
```

JS

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System Tray

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Output

Clear

```
20
21 System.out.println("Enter number of columns in second
22 matrix: ");
23 col2 = s.nextInt();
24
25 if (col1 != row2) {
26     System.out.println("Matrix multiplication is not
27     possible");
28     return;
29 }
30 int a[][] = new int[row1][col1];
31 int b[][] = new int[row2][col2];
32 int c[][] = new int[row1][col2];
33
34 System.out.println("\nEnter values for matrix A : ");
35 for (int i = 0; i < row1; i++)
36 {
37     for (int j = 0; j < col1; j++)
38     {
39         a[i][j] = s.nextInt();
40     }
41 }
```

```
java -cp /tmp/SP0sWu8a7 matrixmultiplication
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 :
5
6
7
8
Enter values for matrix B :
8
9
10
11
Matrix multiplication is :
160 111 136 151
```

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Main.java

40

}

41

System.out.println("Enter values for matrix B : ");

42

for (int i = 0; i < row2; i++) {

43

for (int j = 0; j < col2; j++)

44

{

45

b[i][j] = s.nextInt();

46

}

47

}

48

s.close();

49

50

51

System.out.println("Matrix multiplication is : ");

52

for (int i = 0; i < row1; i++) {

53

for (int j = 0; j < col2; j++) {

54

55

c[i][j] = 0;

56

57

58

for (int k = 0; k < col1; k++) {

59

c[i][j] += a[i][k] * b[k][j];

60

}

61

}

Run

Output

Clear

java -cp . /tmp/3P0u50uRn? matrixmultiplication

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 :

5

6

7

8

Enter values for matrix B :

8

9

10

11

Matrix multiplication is :

100 111 126 151

Windows

9:30 AM

12/20/2021

