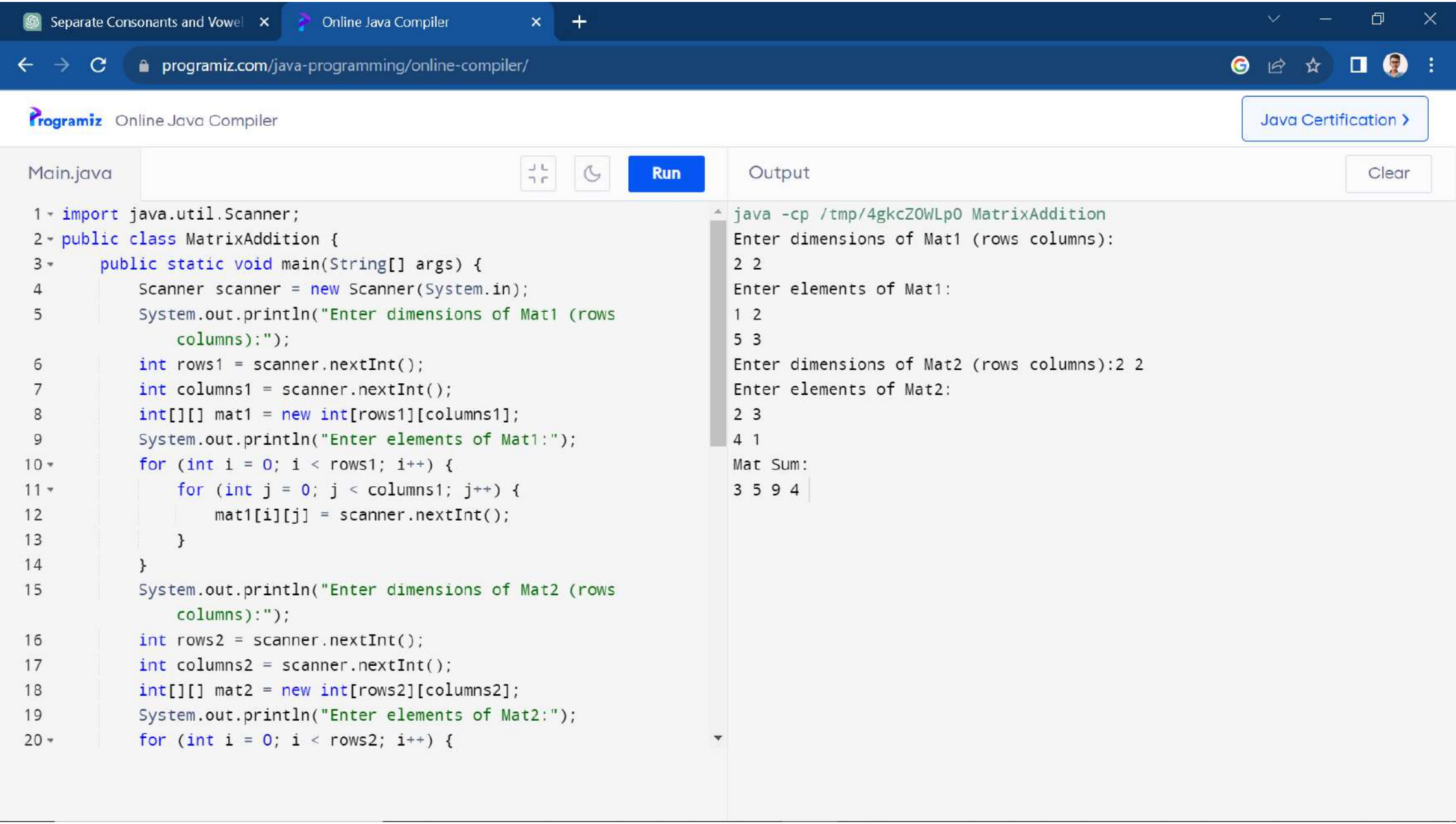
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Main.java
Run
Output
Clear
1 import java.util.Scanner;
2 public class MatrixAddition {
3 public static void main(String[] args) {
4 Scanner scanner = new Scanner(System.in);
5 System.out.println("Enter dimensions of Mat1 (rows columns):");
6 int rows1 = scanner.nextInt();
7 int columns1 = scanner.nextInt();
8 int[][] mat1 = new int[rows1][columns1];
9 System.out.println("Enter elements of Mat1:");
10 for (int i = 0; i < rows1; i++) {
11 for (int j = 0; j < columns1; j++) {
12 mat1[i][j] = scanner.nextInt();
13 }
14 }
15 System.out.println("Enter dimensions of Mat2 (rows columns):");
16 int rows2 = scanner.nextInt();
17 int columns2 = scanner.nextInt();
18 int[][] mat2 = new int[rows2][columns2];
19 System.out.println("Enter elements of Mat2:");
20 for (int i = 0; i < rows2; i++) {
java -cp /tmp/4gkcZOWLpO MatrixAddition
Enter dimensions of Mat1 (rows columns):
2 2
Enter elements of Mat1:
1 2
5 3
Enter dimensions of Mat2 (rows columns):2 2
Enter elements of Mat2:
2 3
4 1
Mat Sum:
3 5 9 4

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Main.java

Run

```
18      int[][] mat2 = new int[rows2][columns2];
19      System.out.println("Enter elements of Mat2:");
20      for (int i = 0; i < rows2; i++) {
21          for (int j = 0; j < columns2; j++) {
22              mat2[i][j] = scanner.nextInt();
23          }
24      }
25      if (rows1 != rows2 || columns1 != columns2) {
26          System.out.println("Matrix addition is not possible
                due to incompatible dimensions.");
27          scanner.close();
28          return;
29      }
30      int[][] result = new int[rows1][columns1];
31      for (int i = 0; i < rows1; i++) {
32          for (int j = 0; j < columns1; j++) {
33              result[i][j] = mat1[i][j] + mat2[i][j];
34          }
35      }
36      System.out.println("Mat Sum:");
37      for (int i = 0; i < rows1; i++) {
38          for (int j = 0; j < columns1; j++) {
```

Output

Clear

```
java -cp /tmp/4gkcZOWLpO MatrixAddition
Enter dimensions of Mat1 (rows columns):
2 2
Enter elements of Mat1:
1 2
5 3
Enter dimensions of Mat2 (rows columns):2 2
Enter elements of Mat2:
2 3
4 1
Mat Sum:
3 5 9 4
```

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Main.java

Run

```
26          System.out.println("Matrix addition is not possible
                due to incompatible dimensions.");
27          scanner.close();
28          return;
29      }
30      int[][] result = new int[rows1][columns1];
31      for (int i = 0; i < rows1; i++) {
32          for (int j = 0; j < columns1; j++) {
33              result[i][j] = mat1[i][j] + mat2[i][j];
34          }
35      }
36      System.out.println("Mat Sum:");
37      for (int i = 0; i < rows1; i++) {
38          for (int j = 0; j < columns1; j++) {
39              System.out.print(result[i][j] + " ");
40          }
41          System.out.println();
42      }
43      scanner.close();
44  }
45 }
46
```

Output

Clear

```
java -cp /tmp/4gkcZOWLpO MatrixAddition
Enter dimensions of Mat1 (rows columns):
2 2
Enter elements of Mat1:
1 2
5 3
Enter dimensions of Mat2 (rows columns):2 2
Enter elements of Mat2:
2 3
4 1
Mat Sum:
3 5 9 4
```