Co1

AIM:Read 2 matrices from the console and perform matrix addition.

```java
import java.util.*;

public class matrix {

    int row;

    int column;

    int[][] array = new int[10][10];

    public void get_metrix(){

        int rc,cc;


    Scanner sc= new Scanner(System.in);

        System.out.print("Enter size of matrix , row count : ");

        this.row = sc.nextInt();

        System.out.print("Enter size of matrix , column count  : ");

        this.column = sc.nextInt();

        System.out.print("Enter matrix elements : ");

        for(rc=0;rc<this.row;rc++){

            for(cc=0;cc<this.column;cc++){
```

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            this.array[rc][cc] = sc.nextInt();

        }

    }

}



public static matrix sum(matrix c1, matrix c2) {

    int rc, cc;

    matrix temp = new matrix();

    if (c1.row == c2.row && c1.column == c2.column) {

        temp.row =c1.row;

        temp.column = c1.column;

        for (rc = 0; rc < c1.row; rc++) {

            for (cc = 0; cc < c1.column; cc++) {
temp.array[rc][cc] =  c1.array[rc][cc] +  c2.array[rc][cc];

            }

        }

    }
```

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        else {

            System.out.println("Addition not possible ");

        }


        return temp;

    }


    public void display_matrix(){

        int rc,cc;

        for(rc=0;rc<this.row;rc++){

            for(cc=0;cc<this.column;cc++){

                System.out.print(this.array[rc][cc] );

            }

            System.out.println("");

        }

    }

    public static void main(String[] args)
```

```java
{

    matrix first = new matrix();

    matrix second = new matrix();

    matrix temp = sum(first, second);


    first.get_metrix();

    second.get_metrix();

    temp = sum(first,second);


    //first.display_matrix();

    //second.display_matrix();


    System.out.println("......SUM MATRIX.......");

    temp.display_matrix();

    System.out.println("......END.......");

    }

}
```