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Course: Java Programming
Course Code: CSE1007
Faculty: Dr. Naveen Kumar N
Slot: A2+TA2
Program Code:
package classwork;
import java.util.Scanner;
public class ClassWork {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
System.out.println("How many rows do you want in first matrices: ");
a = sc.nextInt();
int mat1[][] = new int[a][a];
int mat2[][] = new int[a][a];
int add1[][] = new int[a][a];
int i,j;
System.out.println("Enter values of matrix 1");
for (i=0; i< a; i++)
for (j=0; j< a; j++)
mat1[i][j] = sc.nextInt();
System.out.println("Enter values of matrix 2");
for (i=0; i< a; i++)
for (j=0; j< a; j++)
mat2[i][j] = sc.nextInt();
for (i=0; i< a; i++)
for(j=0;j< a;j++)
add1[i][j]=mat1[i][j]+mat2[i][j];
System.out.println("Sum of first two arrays:");
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for (i=0; i< a; i++)
for (j=0; j< a; j++)
System.out.print(add1[i][j]+" ");
System.out.print("\n");
System.out.println("How many rows for second matrices:");
a=sc.nextInt();
int mat1 [agged][] = new int[a][];
int mat2 [agged] = new int[a];
int add2[][] = \text{new int}[a][];
int b;
for (i=0; i< a; i++)
System.out.println("How many columns in row "+(i+1)+":");
b=sc.nextInt();
mat1 jagged[i] = new int[b];
mat2 jagged[i] = new int[b];
add2[i] = new int[b];
}
System.out.println("Enter elements of first jagged matrix:");
for (i=0;i<mat1 jagged.length;i++)
for(j=0;j<mat1_jagged[i].length;j++)
mat1 jagged[i][j] = sc.nextInt();
System.out.println("Enter elements of second jagged matrix:");
for (i=0;i<mat2 jagged.length;i++)
for(j=0;j<mat2_jagged[i].length;j++)
mat2_jagged[i][j] = sc.nextInt();
for (i=0;i<mat1 jagged.length;i++)
for (j=0;j<mat1 jagged[i].length;j++)
add2[i][j] = mat1_jagged[i][j]+mat2_jagged[i][j];
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System.out.println("Sum of second two arrays:");
for (i=0;i<add2.length;i++)
{
  for (j=0;j<add2[i].length;j++)
  {
    System.out.print(add2[i][j]+" ");
  }
  System.out.print("\n");
}</pre>
```

Output:

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siddharth@siddharth-hp-pavilion-x360:~/Documents/java$ javac classwork/ClassWork.java
siddharth@siddharth-hp-pavilion-x360:~/Documents/java$ java classwork/ClassWork
How many rows do you want in first matrices:
Enter values of matrix 1
Enter values of matrix 2
5
6
Sum of first two arrays:
6 8
10 12
How many rows for second matrices:
How many columns in row 1:
How many columns in row 2:
Enter elements of first jagged matrix:
Enter elements of second jagged matrix:
Sum of second two arrays:
2 4 6
siddharth@siddharth-hp-pavilion-x360:~/Documents/java$
```