//Arrays

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package program10;

import java.util.Scanner;

public class Program10 {

public static void main(String[] args) {

double[][] table = new double[3][5];

double[] rowTotal = new double[3];

double[] columnTotal = new double[5];

double grandTotal = PopulateTable(table, rowTotal, columnTotal);

PrintMethod(table, rowTotal, columnTotal,grandTotal);

}

static double PopulateTable(double [][] table, double [] rowTotal, double [] columnTotal) {

double grandTotal = 0;

Scanner keyboard = new Scanner(System.in);

for (int r = 0; r < 3; r++) {

for (int c = 0; c < 5; c++) {

System.out.println("Enter the value for row " + r + " and column1 " + c);

table[r][c] = keyboard.nextInt();

}

}

//Calc totals

for (int r = 0; r < table.length; r++) {

for (int c = 0; c < table[r].length; c++) {

rowTotal[r] += table[r][c];

columnTotal[c] += table[r][c];

grandTotal += table[r][c];

}

}

return grandTotal;

}

static void PrintMethod(double [][] table, double [] rowTotal, double [] columnTotal, double grandTotal)

{

// print results

for (int r = 0; r < table.length; r++) {

for (int c = 0; c < table[r].length; c++) {

System.out.printf("%8.2f", table[r][c]);

} // end of loop for column

System.out.printf("%12.2f\n", rowTotal[r]);

} // end of loop for row

System.out.println();

for (int c = 0; c < columnTotal.length; c++) {

System.out.printf("%8.2f", columnTotal[c]);

} // end of loop for column

System.out.printf("%12.2f\n", grandTotal);

}

}

OUTPUT

run:

Enter the value for row 0 and column 0

1

Enter the value for row 0 and column 1

2

Enter the value for row 0 and column 2

3

Enter the value for row 0 and column 3

4

Enter the value for row 0 and column 4

5

Enter the value for row 1 and column 0

1

Enter the value for row 1 and column 1

2

Enter the value for row 1 and column 2

3

Enter the value for row 1 and column 3

4

Enter the value for row 1 and column 4

5

Enter the value for row 2 and column 0

1

Enter the value for row 2 and column 1

2

Enter the value for row 2 and column 2

3

Enter the value for row 2 and column 3

4

Enter the value for row 2 and column 4

5

1.00 2.00 3.00 4.00 5.00 15.00

1.00 2.00 3.00 4.00 5.00 15.00

1.00 2.00 3.00 4.00 5.00 15.00

3.00 6.00 9.00 12.00 15.00 45.00

BUILD SUCCESSFUL (total time: 13 seconds)