Name:	
	ISTE-120 Lab 10: 2-Dimensional Arrays
Note: All Exercises must be completed during the lab period.	
Exercise :	1 – Grid sums (5 points)
	oad the file GridPractice.zip from myCourses that unzips to a file named cactice.java. There are no other classes as all code will be in the main method.
size to	ne user enters a size, the program creates a 2-dimensional array (named grid) with the specify the number of rows and columns. To avoid typing a great deal of input, the m stores random numbers between 099 into each position in grid.
	the code to print the contents of the $grid$ as shown in the Sample Output. To have the as align, you will need to use the $printf$ command.
When the	program works correctly, have the instructor or TA check the code and initialize.
	Have instructor or TA sign here when Exercise 1 works correctly.
Exercise 2	2 – Row and Column Sums (3 points)
4. Write t	the code to calculate and print the sum of each row and each column. (See Example).
	Have instructor or TA sign here when Exercise 2 works correctly.
Exercise	3 – Diagonal Sums (2 points)
<b>One dia</b> [2] [2	the code to calculate and print the sum of the two diagonals. Assume that the size is 3. agonal starts in the upper left corner( $[0][0]$ ) and ends in the lower right corner ( $[0]$ ). The other diagonal starts in the upper right corner ( $[0][2]$ ) and end in the eft corner ( $[2][0]$ ).
	Have instructor or TA sign here when Exercise 3 works correctly.

## **Sample Output**

```
Command Prompt
dkpvcs> java GridPractice
Enter size of grid: 2
Random values assigned to 2 by 2 grid
 26 33
Row Sum
 0 53
    59
Col Sum
 0
     49
 1
      63
Diagonal total from upper left to lower right is 56
Diagonal total from upper right to lower left is 56
dkpvcs>
```

```
Command Prompt
dkpvcs> java GridPractice
Enter size of grid: 3
Random values assigned to 3 by 3 grid
 48 80 56
 16 64 43
 10 71 27
Row Sum
 0 184
   123
 1
 2 108
Col Sum
 0
     74
    215
 1
 2 126
Diagonal total from upper left to lower right is 139
Diagonal total from upper right to lower left is 130
dkpvcs> 🕳
```