CSE 110 - Lab 8

This lab is for practicing 1-D arrays.

Use the following Coding Guidelines:

- When declaring a variable, you usually want to initialize it.
- Use white space to make your program more readable.
- Use comments after the ending brace of classes, methods, and blocks to identify to which block it belongs.

Assignments Documentation:

At the beginning of each programming assignment you must have a comment block with the following information:

Getting Started

Create a class called **Lab8**. Use the same setup for setting up your class and main method as you did for the previous assignments. Be sure to name your file **Lab8.java**.

Hints

Please replace //--> with the correct program to finish the task according to the corresponding comment.

Please replace ??? with the correct program to enable the program to run as required.

```
/*-----
// AUTHOR: (Put your name here)
// FILENAME: Lab8.java
// SPECIFICATION: This program is for practicing arrays.
// INSTRUCTIONS: Read the following code skeleton and add your own code
  mates for help and/or clarification. When you see
// according to the comments. Ask your TA or your class-
//
// LAB LETTER: (Put your lab letter)
//----*/
//import Scanner class
import java.util.Scanner;
//declare the class Lab6
public class Lab8
   //declare the main method
   public static void main(String[] args)
   {
```

```
// Define scan object of the type Scanner class
      //-->
      //define an int variable <size>
      //_>
      //Declare an integer array
      int[] int_arr;
      //Assign it memory location. Specify the dimension of the array(Let's
take 5)
      int_arr = new int[5];
      //Using a for loop which runs till <size>, read values from the user
and store it in the integer array.
      for (???; ???; ; ???) {
            // Read the value the user enters
            //Assign it to the ith element of the array.
            //_>
      }
      //TASK 1
      //Using a for loop which runs till <size>, print all the values of the
array and find the sum of all elements of the array.
      sum = 0;
      for (???; ???; ; ???) {
            // Print all the values of the array.
            //_>
            //Add the element to sum
            //_>
      }
      //Print the value of sum
      //_>
      //TASK 2
      //Using the array that we've created, we'll rotate the elements in the
arrays.
      //Given an array, after computation the array will be with the elements
"rotated left" so {1, 2, 3} yields {2, 3, 1}.
      //Store the last element: int last = int_arr[int_arr.length - 1];
      //Store the first element: int first = int_arr[0];
```

SAMPLE OUTPUT:

```
Please enter value for index 0:
10
Please enter value for index 1:
Please enter value for index 2:
33
Please enter value for index 3:
Please enter value for index 4:
50
Value at index 0: 10
Value at index 1: 20
Value at index 2: 33
Value at index 3: 40
Value at index 4: 50
The sum of all the elements of the array: 153
Array after left rotation:
Value at index 0: 20
Value at index 1: 33
```

Value at index 2: 40 Value at index 3: 50 Value at index 4: 10