1. "For" loop is to be used to sum and display the array contents.

```
import java.util.Scanner;
import java.text.DecimalFormat;
public class ForArray {
      public static void main(String[] args) {
            // 1. Create Scanner objective
            Scanner scan = new Scanner(System.in);
            DecimalFormat df = new DecimalFormat("0.00");
            System.out.print("Please Enter Array Length: ");
            // 2. Assign 'size1' as the array length parameter to the nums array
variable
            int size1 = scan.nextInt();
            double[] nums = new double[size1];
,increase +1
            for(int i = 0; i < size1; i++) {</pre>
                  System.out.print("Please Enter No." + (i+1) + " Number: ");
                        nums[i] = scan.nextDouble();
            }
            // Populate all the numbers which user input
            for(int i = 0; i < size1;i++) {</pre>
                  System.out.println("Number" + (i+1) + " is " + nums[i]);
            /* 2. Use a for loop and use the formula (sum += nums[i]) equals
                  (sum all = sum + nums[i]) to calculate the total values */
            double sum = 0;
            for(int i = 0; i < nums.length; i++) {</pre>
                  sum += nums[i];
            }
            System.out.println("the sum = "+ df.format(sum));
```

```
}
```

consequense

2. Replies either Leap Year of Not a Leap Year when given a year

```
import java.util.Scanner;
public class LeapYear {
     public static void main(String[] args) {
           /* 1. Create Scanner objective
                2. Print out notice information
                3. User inputs 'year'*/
           Scanner scan = new Scanner(System.in);
           System.out.print("Please Enter Year: ");
           int year = scan.nextInt();
           /* Using If/else Statement
           * if (if the year also divisible by 400) Or (the year is divisible
by 4 but not by 100)
           * then will output 'year is leap year'
           * else will output 'year is not leap year'
           if(year%400 == 0 || (year%4 == 0 && year % 100 != 0)) {
                System.out.println(year + " is leap year");
           } else {
                System.out.println(year + " is not leap year");
           }
     }
```

Consequense

