Task 1:

```
import java.util.Scanner;
public class Lab3 {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int number;
        int largest = Integer.MIN_VALUE;
        int smallest = Integer.MAX_VALUE;

        System.out.println("\nEnter a series of integers (-99 to end):");

        while (true) {
            number = scanner.nextInt();

            if (number == -99) {
                break;
            }

            if (number > largest) {
                largest = number;
            }

            if (number < smallest) {
                smallest = number;
            }
        }

        if (largest == Integer.MIN_VALUE && smallest == Integer.MAX_VALUE)
{
            System.out.println("No valid numbers were entered.");
        } else {
            System.out.println("The largest number entered is: " +
largest);
            System.out.println("The smallest number entered is: " +
smallest);
        }
    }
}
```

```
Enter a series of integers (-99 to end):
10
6
5
23
42
56
100026
10254
0
-9
10
-100
-99
The largest number entered is: 100026
The smallest number entered is: -100
PS C:\Users\werer\Documents\CS>
```

Task 2:

```
import java.util.Scanner;

public class Lab3 {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int number;
        int largest = Integer.MIN_VALUE;
        int smallest = Integer.MAX_VALUE;

        System.out.println("\nEnter a series of integers (-99 to end):");

        do {
            number = scanner.nextInt();

            if (number > largest) {
                largest = number;
            }

            if (number < smallest) {
                smallest = number;
            }
        }   while (number!=-99);
```

```
        if (largest == Integer.MIN_VALUE && smallest == Integer.MAX_VALUE)
{
            System.out.println("No valid numbers were entered.");
        } else {
            System.out.println("The largest number entered is: " +
largest);
            System.out.println("The smallest number entered is: " +
smallest);
        }
    }
}
```

```
Enter a series of integers (-99 to end):
10
24
32
36
102354
-100
-1000
-123456
-99
The largest number entered is: 102354
The smallest number entered is: -123456
PS C:\Users\werer\Documents\CS>
```

```
import java.util.Random;

public class Lab3_2 {
    public static void main(String[] args) {
        Random random = new Random();
        int number;
        int sum = 0;

        System.out.println("Generating 10 random numbers between 1 and
100:");

        for (int i = 0; i < 10; i++) {
            number = random.nextInt(100) + 1; // Generates a random number
between 1 and 100
```

```
            sum += number;

            System.out.print("Random number " + (i + 1) + ": " + number);
            if (number % 2 == 0) {
                System.out.println(" - Even");
            } else {
                System.out.println(" - Odd");
            }
        }

        System.out.println("The sum of the numbers is: " + sum);
    }
}
```

```
ws\x5cCS_5a2f5bc4\x5cbin' 'Lab3_2' ;1e42c6ed-06ff-4ad7-a8aa-d85f25748541Generating 10 random numbers between 1 and 100:
Random number 1: 27 - Odd
Random number 2: 36 - Even
Random number 3: 39 - Odd
Random number 4: 38 - Even
Random number 5: 84 - Even
Random number 6: 43 - Odd
Random number 7: 13 - Odd
Random number 8: 25 - Odd
Random number 9: 40 - Even
Random number 10: 91 - Odd
The sum of the numbers is: 436
PS C:\Users\werer\Documents\CS>
```