## Lab Assignment – 24

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1)Read and store 'n' no. of elements to an arraylist using stream API, and display the same to user. From the above list filter and display only positive numbers.

```
package com.wrapperclass.examples;
import java.util.ArrayList;
import java.util.List;
import java.util.Scanner;
import java.util.stream.Collectors;
public class PositiveNumbers {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        // Read 'n' elements from the user
        System.out.print("Enter the number of elements:
");
        int n = scanner.nextInt();
        List<Integer> numbers = new ArrayList<>();
        System.out.println("Enter " + n + "
elements:");
        for (int i = 0; i < n; i++) {</pre>
            System.out.print("Element " + (i + 1) + ":
");
            numbers.add(scanner.nextInt());
        }
        // Display the original list
        System.out.println("Original list: " +
numbers);
        // Use Stream API to filter and display only
positive numbers
```

## **Output:**

```
1 package com.wrapperclass.examples;
 3 import java.util.ArrayList;
 4 import java.util.List;
  5 import java.util.Scanner;
 6 import java.util.stream.Collectors;
 8 public class PositiveNumbers {
 90 public static void main(String[] args) {
10
            Scanner scanner = new Scanner(System.in);
11
 12
             // Read 'n' elements from the user
 13
             System.out.print("Enter the number of elements: ");
 14
             int n = scanner.nextInt();
 15
16
             List<Integer> numbers = new ArrayList<>();
 17
             System.out.println("Enter " + n + " elements:");
18

    Problems @ Javadoc   □ Declaration □ Console × □ Coverage

<terminated> PositiveNumbers [Java Application] C:\Users\USER\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_19.0.2.v20230129-1123\jre\bin\javaw.exe
Enter the number of elements: 5
Enter 5 elements:
Element 1: 2
Element 2: 5
Element 3: -6
Element 4: 1
Element 5: 8
Original list: [2, 5, -6, 1, 8]
Positive numbers: [2, 5, 1, 8]
```