Experiment 5

Student Name: Divyanshu Jaiswal **UID: 22BCS12806**
Branch: B.E. CSE **Section/Group: KRG - 2 B**
Semester: 6th **Date of Performance: 03/02/25**
Subject Name: PBLJ LAB **Subject Code: 22CSH-359**

1. **Aim:** Write a Program to calculate the sum of a list of integers using autoboxing and unboxing. Include methods to parse strings into respective wrapper classes

2. **Implementation/Code:**

```
import java.util.*;

public class autoboxing {
   public static List<Integer> parseStringToIntegers(List<String> strNumber
      List<Integer> intNumbers = new ArrayList<>();
      for (String num : strNumbers) {
         intNumbers.add(Integer.parseInt(num));
      }
      return intNumbers;
   }

   public static int calculateSum(List<Integer> numbers) {
      int sum = 0;
      for (Integer num : numbers) {
         sum = num+sum;
      }
      return sum;
   }

   public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);

      System.out.println("Enter the number of elements:");
      int n = scanner.nextInt();
      scanner.nextLine();

      List<String> strNumbers = new ArrayList<>();
      System.out.println("Enter " + n + " numbers:");
      for (int i = 0; i < n; i++) {
         strNumbers.add(scanner.nextLine());
      }

      List<Integer> numbers = parseStringToIntegers(strNumbers);
      int sum = calculateSum(numbers);
```

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

        scanner.close();
    }
}
```

3. Output: