



Experiment 5

Student Name: Keshav

Branch: B.E. CSE

Semester: 6th

Subject Name: PBLJ LAB

UID: 22BCS14552

Section/Group: KRG - 2 B

Date of Performance: 03/02/25

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> strNumbers) {
        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);
```



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Discover. Learn. Empower.

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

3. Output:

```
Enter the number of elements:  
5  
Enter 5 numbers:  
2  
3  
4  
5  
6  
The sum of the numbers is: 20
```