

# Rajalakshmi Engineering College

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 3\_Q3

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

You are developing a warehouse management system for a shipping company. The system uses an integer array to represent the weights of packages in a specific order. To verify that the weight capacity is not exceeded, the program needs to calculate the sum of the weights of the first and last packages in the list.

Task:

Write a code to calculate the sum of the weights of the first and last packages in the list. The program should take an integer array as input and return the total weight of the first and last packages.

##### ***Input Format***

The first line of the input is an integer N representing the size of the array.

The second line of the input is N space-separated integer values.

### **Output Format**

The output is displayed in the following format:

"Sum of the first and last elements: <<Sum>>"

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 5

10 20 30 40 50

Output: Sum of the first and last elements: 60

### **Answer**

// You are using Java

import java.util.\*;

```
public class Main {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);
```

```
        // Read size of array  
        int N = sc.nextInt();  
        int[] arr = new int[N];
```

```
        // Read array elements  
        for (int i = 0; i < N; i++) {  
            arr[i] = sc.nextInt();  
        }
```

```
        // First and last elements  
        int first = arr[0];  
        int last = arr[N - 1];
```

```
        // Compute sum  
        int sum = first + last;
```

```
// Print result in required format
System.out.println("Sum of the first and last elements: " + sum);

    sc.close();
}
}
```

**Status :** Correct

**Marks :** 10/10