Rajalakshmi Engineering College

Name: Nantha Kumar K
Email: 241801504@rajalakshmi.edu.in
Roll no: 241801504
Phone: 9342578613
Branch: REC
Department: AI & DS - Section 3
Batch: 2028
Degree: B.E - AI & DS

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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

```
import java.util.Scanner;
class PackageWeightSum {
   public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);
      int N = sc.nextInt();
      int[] weights = new int[N];
      for (int i = 0; i < N; i++) {
         weights[i] = sc.nextInt();
      }
      int sum = weights[0] + weights[N - 1];
      System.out.println("Sum of the First and Last elements: "+ sum);
      sc.close();
   }
}
```

Status : Correct ***Marks : 10/10***