

# Rajalakshmi Engineering College

Name: Srithan Saravanan  
Email: 240701532@rajalakshmi.edu.in  
Roll no: 240701532  
Phone: 7200352047  
Branch: REC  
Department: CSE - Section 7  
Batch: 2028  
Degree: B.E - CSE

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

### 2028\_REC\_OOPS using Java\_Week 12\_Q1

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Sabrina is working on a project that involves analyzing a set of numbers. In her exploration, she encounters scenarios where extracting even numbers and finding their sum is essential.

Create a program that calculates the sum of even numbers from a given array of integers using a lambda expression.

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

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

The second line consists of N space-separated integers, representing the elements of the array.

##### ***Output Format***

The output prints the sum of the even integers from the array.

Refer to the sample output for formatting specifications.

**Sample Test Case**

Input: 3

29 37 45

Output: 0

**Answer**

```
import java.util.Scanner;
class EvenSumCalculator{
    public static int calculateEvenSum(int[] numbers){
        return java.util.Arrays.stream(numbers)
            .filter(n->n%2==0)
            .sum();
    }
}
class Main{
    public static void main(String[] args){
        Scanner scanner=new Scanner(System.in);
        int count=scanner.nextInt();
        int[] numbers=new int[count];
        for (int i=0;i<count;i++){
            numbers[i]=scanner.nextInt();
        }
        int sum=EvenSumCalculator.calculateEvenSum(numbers);
        System.out.println(sum);
        scanner.close();
    }
}
```

**Status :** Correct

**Marks :** 10/10