

# Rajalakshmi Engineering College

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Department: CSE - Section 10

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***

```
// You are using Java
import java.util.*;
import java.util.function.Predicate;

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

        for (int i = 0; i < n; i++) {
            arr[i] = sc.nextInt();
        }

        // Lambda to check even numbers
        Predicate<Integer> isEven = num -> num % 2 == 0;

        int sum = Arrays.stream(arr)
                        .filter(num -> isEven.test(num))
                        .sum();

        System.out.println(sum);
    }
}
```

**Status : Correct**

**Marks : 10/10**