# Rajalakshmi Engineering College

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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***

```java
import java.util.*;
import java.util.stream.*;

class EvenSumCalculator {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = Integer.parseInt(sc.nextLine());
        int[] arr = Arrays.stream(sc.nextLine().split(" "))
                .mapToInt(Integer::parseInt)
                .toArray();

        int sum = Arrays.stream(arr)
                .filter(x -> x % 2 == 0)
                .sum();

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

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