

# Rajalakshmi Engineering College

Name: Gowtham P  
Email: 241501060@rajalakshmi.edu.in  
Roll no: 241501060  
Phone: 8838517270  
Branch: REC  
Department: AI & ML - Section 4  
Batch: 2028  
Degree: B.E - AI & ML

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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.*;

interface EvenCheck{
    boolean isEven(int num);
}

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();
        }

        EvenCheck checkEven = (num) -> num%2 == 0;

        int total = 0;
        for(int num: arr){
            if(checkEven.isEven(num)){
                total += num;
            }
        }
        System.out.println(total);
    }
}
```

**Status : Correct**

**Marks : 10/10**