

# Rajalakshmi Engineering College

Name: Elamvazhuthi MS

Email: 240701133@rajalakshmi.edu.in

Roll no: 240701133

Phone: 7010282287

Branch: REC

Department: CSE - Section 4

Batch: 2028

Degree: B.E - CSE

Scan to verify results



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

### 2028\_REC\_OOPS using Java\_Week 12\_Q2

Attempt : 1

Total Mark : 10

Marks Obtained : 10

#### **Section 1 : Coding**

##### **1. Problem Statement**

Alex is learning about Java's functional interfaces and lambda expressions.

He wants to write a simple program that prints the square of each number in an array using a predefined functional interface.

Help Alex complete this task using the Consumer functional interface.

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

- The first line contains an integer N, the number of elements in the array.
- The second line contains N space-separated integers.

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

- Print the squares of all elements in the array, separated by a space.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 4

1 2 3 4

Output: 1 4 9 16

### **Answer**

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

interface consumer{
    public void dd();
}

class main{
    public static void main(String[] args){
        Scanner s=new Scanner(System.in);
        int a=s.nextInt();
        int[] arr=new int[a];
        for(int i=0;i<a;i++){
            arr[i]=s.nextInt();
        }
        consumer c=()->{
            for(int i=0;i<a;i++){
                arr[i]=arr[i]*arr[i];
            }
            for(int i=0;i<a;i++){
                System.out.printf("%d",arr[i]);
            }
        };
        c.dd();
    }
}
```

**Status : Correct**

**Marks : 10/10**