

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