

Rajalakshmi Engineering College

Name: SUBASH R
Email: 240701538@rajalakshmi.edu.in
Roll no: 240701538
Phone: 9150202710
Branch: REC
Department: CSE - Section 7
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

```
import java.util.*;
public class Main{
    public static void main(String []args){
        Scanner in =new Scanner(System.in);
        int n=in.nextInt();
        int arr[]=new int[n];
        for(int i=0;i<n;i++) arr[i]=in.nextInt();
        arr=Arrays.stream(arr).map(num->num*num).toArray();
        for(int no : arr) System.out.print(no+" ");
    }
}
```

Status : Correct

Marks : 10/10