# Rajalakshmi Engineering College

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## 2024_28_III_OOPS Using Java Lab

## 2028_REC_OOPS using Java_Week 4_Q2

Attempt : 1
Total Mark : 10
Marks Obtained : 10

## Section 1 : Coding

1. Problem Statement

Anu is developing a tool for a conference registration system. Participants submit keywords related to their fields of interest. The organizer wants to sort these keywords alphabetically to generate tags for session grouping.

Write a program that accepts at least five keywords as input arguments and outputs them in sorted alphabetical order.

*Input Format*

The first line of input contains an integer n, representing the number of keywords.

The second line of input contains n space-separated keywords (string).

*Output Format*

The output prints n space separated strings representing the sorted keyword in alphabetical order.

Refer to the sample output for formatting specifications.

*Sample Test Case*

Input: 5
Blockchain Cloud AI Data Cybersecurity
Output: AI Blockchain Cloud Cybersecurity Data

*Answer*

```java
import java.util.*;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        // read number of keywords
        int n = sc.nextInt();
        sc.nextLine(); // consume newline

        // read keywords
        String[] keywords = new String[n];
        for (int i = 0; i < n; i++) {
            keywords[i] = sc.next();
        }

        // sort alphabetically
        Arrays.sort(keywords);

        // print result
        for (int i = 0; i < n; i++) {
            System.out.print(keywords[i]);
            if (i < n - 1) System.out.print(" ");
        }
    }
}
// You are using Java
```