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***SUNSTONE LEARNING PHASE***

***DAY 1 (08/04/2025)***

* ***Orientation Classes***
* ***Introductions***
* ***Attend the Metting on Google Meet***
* ***Create a New GitHub Account via Sunstone***
* Make an Attractive Profile
* Solve Questions and Upload it on GitHub

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***SUNSTONE LEARNING PHASE***

***DAY 2 (09/04/2025)***

* ***Moddle Access***
* How to Used Moodle
* How to Solve Problems on Moodle
* ***Solve Problems***
* Basic of Java
* Array in Java
* String in Java
* ***Group Discussions***

Topic: Connected and Isolation by AI

* ***Attend Meeting******via Google Meet***

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***SUNSTONE LEARNING PHASE***

***DAY 3 (10/04/2025)***

* ***How to delivered the lecture during class***
* Body Lanuages
* Tones
* Confidence
* Voice
* Reasearch
* Fluency
* ***Start your lecture from***
* Introductions
* What ? Where ? How ?
* Content
* Engagement with Students
* Advantages and Disadvantages
* Conclusions
* ***Solving Problems on Moodle***
* Basic Stack Operations
* LinkedList
* Tree’s Question like (Preorder, Inorder, Postorder Traversal)
* ***Solving Problems on OnlineGDB Compiler***
* Arm Strong Number
* Perfect Number
* ***Upload GDB Online Code on GitHub***
* ***Start to Learn Python***
* Python Variable and Data Types
* Python Control Statements
* Type Casting in Python
* Pyhton If Else
* Loops (For, While, Continue, Break)
* **Prepared the Research Topic**

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***SUNSTONE LEARNING PHASE***

***DAY 4 (11/04/2025)***

* ***Solving Moodle Problems***
* Stack Implementation through the LinkedList
* Binary Tree Height Calculation
* Unordered Linear Search
* Sorted Linear Search
* Binary Search with Recursion
* Selection Sort and Comparison
* ***Presentation about SUNSTONE***
* Fun activity
* Indian data of High - Educated people
* Faculty Member
* ***Induction Session***
* About SUNSTONE
* Policy of SUNSTONE
* Explain HROne Portal

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***SUNSTONE LEARNING PHASE***

***DAY 5 (14/04/2025)***

* ***GDB Online Compiler***
* Selection Sort
* Insertion Sort
* Binary Search
* ***Push Question on GitHub***
* ***Question on Moodle almost Done***
* Except Graph Representation
* ***Learn Graph on YouTube***
* ***Preparation of Teach Back Session***
* Java
  + Basic of Java
  + Data Type in Java
  + Loops in Java
  + Some Questions
  + Array in Java
  + Some Questions
* ***Tech Back Session***
* Syntax of Java
* Data Type in Java
* Loops in Java
* Questions: Sum of Digits
* Recursions
* Array in Java
* String in Java
* ArrayList
* Sorting(Selection Sort, Insertion Sort)
* Searching (Binary Search)
* OOPS

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***SUNSTONE LEARNING PHASE***

***DAY 6 (15/04/2025)***

* ***Solving Problems on Online GDB Compiler***
* ***Explain the concept of my friends***
* ***Almost Done Moodle Questions***
* ***Reading a Graph***
* ***Fellowship (ACE Academy Sessions)***
* ***Solving & Done DSA Competitive Questions***
* Maximum Water Container Problems
* Hologram Maximum Area of Rectangle Problems

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***SUNSTONE LEARNING PHASE***

***DAY 7 (16/04/2025)***

* ***Solving Moodle Problems***
* ***Code Deployed on GitHub***
* ***Explained the Question***
* Histogram (Find Maximum Area of Rectangle in Histogram)
* Explaining Questions
* Write a Code from Scratch
* Explained the Code in Well Mannered Way.
* ***Solve Leetcode Problems***
* [Count the Digits That Divide a Number](https://leetcode.com/problems/count-the-digits-that-divide-a-number)
* [Check If Two String Arrays are Equivalent](https://leetcode.com/problems/check-if-two-string-arrays-are-equivalent)
* ***Solving Coding Problems on Online GDB Compiler***
* Prime Number in Given Range
* ***One to One Sessions by Harjot sir***

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***SUNSTONE LEARNING PHASE***

***DAY 8(17/04/2025)***

* ***Fellowship Accademy Sessions (Speak Up Sprint)***
* My topic is USB
* ***Questions Solve on Online GDB Compiler***
* Separate Vowels and Consonants from the Given String
* GCD of Two Numbers
* Area and Parameter of Rectangle by Using a Rectangle Class to implement a OOPS Concepts
* Solve a Questions ***nPr*** and ***nCr*** (Permutations and Combinations)
* *Solving Questions on LeetCode*
* [Two Sum II - Input Array Is Sorted](https://leetcode.com/problems/two-sum-ii-input-array-is-sorted)
* [Fraction to Recurring Decimal](https://leetcode.com/problems/fraction-to-recurring-decimal)
* [Count Equal and Divisible Pairs in an Array](https://leetcode.com/problems/count-equal-and-divisible-pairs-in-an-array)

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***SUNSTONE LEARNING PHASE***

***DAY 9(18/04/2025)***

* ***Moodle Problems Solve***
* Find the Anagram
* Explained this on Board

import java.util.\*;

public class GroupAnagrams {

public static List<List<String>> groupAnagrams(String[] strs) {

List<List<String>> result = new ArrayList<>();

for (String str : strs) {

boolean placed = false;

String sortedStr = sortString(str);

for (List<String> group : result) {

if (sortString(group.get(0)).equals(sortedStr)) {

group.add(str);

placed = true;

break;

}

}

if (!placed) {

List<String> newGroup = new ArrayList<>();

newGroup.add(str);

result.add(newGroup);

}

}

return result;

}

private static String sortString(String s) {

char[] chars = s.toCharArray();

Arrays.sort(chars);

return new String(chars);

}

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int n = sc.nextInt();

String[] strs = new String[n];

for (int i = 0; i < n; i++) {

strs[i] = sc.next();

}

List<List<String>> result = groupAnagrams(strs);

System.out.println(result);

}

}

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***SUNSTONE LEARNING PHASE***

***DAY 9(18/04/2025)***

* ***Who is a Teacher***

A **teacher** is someone who helps others learn new knowledge, skills, or values. Teachers guide students through lessons, provide explanations, give feedback, and inspire curiosity and critical thinking.

* ***What are the quality of teacher***
* Unbiasedness
* Life Long Learner
* Creative
* Passions
* A teacher should respect to student too.
* ***Who was your favorite teacher & why***

Raghav sir, a teacher of College Wallah because of the I don’t have any prior knowledge of computer programming till my graduation because of I have not a subject as a computer programming language, by the Raghav sir I have a strong command in programming language and explained the concept in practical way and with the example.

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***SUNSTONE LEARNING PHASE***

***DAY 10(19/04/2025)***

* ***Solve Questions on Online GDB Compiler***
* Anagram in List (Solve & Dry Run)

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***SUNSTONE LEARNING PHASE***

***DAY 11(20/04/2025)***

* ***Solve Question on Online GDB Compiler***
* Rotate Array nth Order
* Remove Duplicacy
* ***Solve Question on LeetCode***
* Count Symmetric Integers
* Check Balanced String
* Factorial Trailings Zeroes
* Fibonacci Number
* Perfect Number
* Complex Number Multiplications
* Find the Index of First Occurrence in a String

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***SUNSTONE LEARNING PHASE***

***DAY 12(22/04/2025)***

* ***Solve Question on LeetCode***
* Power of Four
* Sum of Square Numbers
* Sum of two Integers
* Eliminations Game
* Group Anagram
* Partitions Array by Using a Pivot Number
* Teaching Sessions of Aashish
* Basic of Java
* Class and Object
* Functions / Method (Constructor)
* Loops
* Array
* OOPs

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***SUNSTONE LEARNING PHASE***

***DAY 13(23/04/2025)***

* ***Solve Question on LeetCode***
* Maximum Swap
* Find Closet Person
* **Group Discussions**
* My Topic : Is Upskilling Better than that High Educations
* **Competitive Coding**

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***SUNSTONE LEARNING PHASE***

***DAY 14(24/04/2025)***

* **Solve LeetCode Problems**
* Single Number II
* Number Complement
* **Tech Certifications Course**
* By using a **Sololearn** platform, I started a Course in MySQL.
* SQL Queries
* Relational Database
* Datatype
* Sorting Data
* Filtering Data
* **Solving Questions on Online GDB Compiler**

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***SUNSTONE LEARNING PHASE***

***DAY 15(25/04/2025)***

* **Solve LeetCode Problems**
* Mean of Array After Removing Some Elements
* Find the Pivot Integers.
* **Tech Certifications Course**
* By using a **Sololearn** platform, I started a Course in MySQL.
* Student Grade
* Employee Salary
* Quiz
* **One to One HR**
* One to One with Kanu Ma’am.

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***SUNSTONE LEARNING PHASE***

***DAY 16(28/04/2025)***

* **Solve LeetCode Problems**
* N-th Tribonacci Numbers
* XOR Operations in an Array
* Sum of Digits Base K
* Count Operations to obtain Zeros
* **Tech Certifications Course**
* By using a **Sololearn** platform, I started a Course in MySQL.
* Limiting Data
* Concept of Offset
* Pattern Matching
* Query techniques
* Quiz
* **Solve Questions on Online GDB Compiler**
* Broken a String in K-th size.
* **Link this Everyday Learning with GitHub**
* Push code on GitHub
* The Link of the Repository is :
* <https://github.com/ankit8362/sunstone_everyday_work>
* View all the activity on this link.

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***SUNSTONE LEARNING PHASE***

***DAY 17(29/04/2025)***

* **Solve LeetCode Questions**
* Second Largest Digit in a String
* Special Array With X Elements Greater Than or Equal to X
* Counting Bits
* Ransome Notes.
* **Tea With Founder and Other Dept. Seniors**
* **Complete the College Assignments**
* Assignment 2 Introductions of Internet of Things
* Assignment 3 Introductions of Internet of Things

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***SUNSTONE LEARNING PHASE***

***DAY 18(30/04/2025)***

* **Solve LeetCode Questions**
* Ransome Notes
* The K-th Factor of n
* Count Array Pairs Divisible by K
* Number of Common Factors

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***SUNSTONE LEARNING PHASE***

***DAY 19(01/05/2025)***

* **Solve LeetCode Problems**
* **Code Briefing by Ankit Mishra**

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***SUNSTONE LEARNING PHASE***

***DAY 20(02/05/2025)***

* **Problems Solving on Leetcode**
* Neither Minimum Nor Maximum
* Second Highest Salary
* Smallest Number with all Set Bits

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***SUNSTONE LEARNING PHASE***

***DATE 12/05/2025***

* **Soft Skill Classes**
* Groupwise Discussion
* How Many type of Questions
* Closed Ended Questions
* Opend Ended Questions
* Probing
* Leading
* Clarifying Questions
* What is feedback
* Positive feedback
* Constructive Feedback
* ***Competitive Programming Question***
* Leetcode
* Online GDB Compiler

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***SUNSTONE LEARNING PHASE***

***DATE 13/05/2025***

* ***Competitive Programming Question***
* Leetcode
* Online GDB Compilerk
* Google Sheet Regrading to Progress Fill-up
* Link of the Google Document
* <https://docs.google.com/spreadsheets/d/18lI-8g4B-qqhnP_tq-VqBV9Nt8_fJaDqZI5-KRCoc3M/edit?usp=sharing>

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***SUNSTONE LEARNING PHASE***

***DATE 14/05/2025***

* ***Java Full Stack Development Classes***
* Encapsulations
* Setter and Getter Method
* Assignments
* Inheritence
* Single Inheritence
* Multi Level Inheritence
* Hybrid Inheritence
* Method Overriding
* Method Overloading
* Assignments
* Abstraction
* Abstract Class
* Abstract Method
* Example
* Assignments
* Interface
* 100% Abstraction
* Implements
* Multiple Inheritence
* Assignments
* String
* Muttable Concepts
* .equals vs ==
* Assignments
* StringBuilder and StringBuffer
* Muttable Concepts
* Inbuilt Method
* How it is difference from String.

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***SUNSTONE LEARNING PHASE***

***Assignment 2:*** (method + constructors)

Create class as "Shape"

i want to calculate the area of the different shapes - square, rectangle, circle

1. create 4 constructors - default contructor + three parameterized constrcutors for the shapes (using constructor overloading)

2. create 3 methods for (square, rectangle, circle) display which will display the value of the area calculated

3. calculate the area of the rhombus and triangle using the method overloading concept

***Assignment 3:*** create the 4 student objects with name s1,s2,s3,s4

Declare the class "Student" and create member variables as below:

- String name

- int age

- section(char type)

- gender (char type)

- three int subject marks (subject1, subject2, subject3)

(1) Calculate the total marks and percentage obtained by every student (total= subject 1 + subject 2+ subject 3) by passing the values from the parameterized constructor

(2) For s2 and s3 students pass subject 1 marks = 0 and don’t pass it in constructor.

(3) create method display ---> display all the s1, s2, s3 and s4 objects values (all the class variables + total marks + percentage)

***Assignment 4:***

We have to calculate the percentage of marks obtained in three subjects (each out of 100) by student A and in four subjects (each out of 100)

by student B. Create an abstract class 'Marks' with an abstract method 'getPercentage'. It is inherited by two other classes 'A' and 'B' each having

a method with the same name which returns the percentage of the students. The constructor of student A takes the marks in three subjects as its

parameters and the marks in four subjects as its parameters for student B. Create an object for each of the two classes and print the percentage

of marks for both the students.

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***SUNSTONE LEARNING PHASE***

***DATE 14/05/2025***

* ***Soft Skill Classes***