Task 2 :Student Record Management System

- **Objective**:   Create a CLI-based CRUD system for managing student records.
- **Tools** :Java, VS Code/IntelliJ CE.
- **Deliverables**: Java program with classes and menu options.

Hints/Mini Guide:

1. Create a Student class with fields like ID, name, marks.
2. Use ArrayList to store student objects.
3. Implement options: Add, View, Update, Delete.

Outcome: Practice real-world data structure use.

Interview Questions:

1. What is encapsulation?
2. How are ArrayLists different from arrays?
3. How to sort an ArrayList?
4. What is constructor overloading?
5. How does garbage collection work in Java?
6. Why do we use getters and setters?
7. What is a static variable?
8. What is the use of final keyword?
9. Difference between compile-time and runtime errors?
10. What are access modifiers?

Key Concepts: **Classes, Collections (ArrayList), loops, encapsulation.**

📤 **Submit Here:**
After completing the task, paste your GitHub repo link and submit it using the link below:
- 👉 [Submission Link]

📌 Task Submission Guidelines

- ⏰ **Time Window:**

You can complete the task anytime between 10:00 AM to 10:00 PM on the given day. Submission link closes at 10 :00 PM

- 🔍 **Self-Research Allowed:**

You are free to explore, Google, or refer to tutorials to understand concepts and complete the task effectively.

- 🛠️ **Debug Yourself:**

Try to resolve all errors by yourself. This helps you learn problem-solving and ensures you don't face the same issues in future tasks.

- 💸 **No Paid Tools:**

If the task involves any paid software/tools, do not purchase anything. Just learn the process or find free alternatives.

- 📁 **GitHub Submission:**

Create a new GitHub repository for each task.

Add everything you used for the task — code, datasets, screenshots (if any), and a **short README.md** explaining what you did.

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