INTEGRATIVE PROGRAMMING

Project Title: **Student Task Management App**

1. Project Idea & Requirements

- This project is a simple mobile app that helps students organize their homework, exams, and deadlines in one place. The goal is to help students manage their time better and not miss important tasks.

- **Project Requirements (3) -** SMART format

S - SPECIFIC
  - Allow users to add and edit tasks.

M - MEASURABLE
  - Tasks must be saved within 5 seconds.

A - ACHIEVABLE
  - Build a basic task app in the whole semester.

R - Relevant
  - Task reminders are relevant to a student planner app.

T - TIME-BOUND
  - Complete login feature by Week 3.

2. System Architecture Diagram

- **Mobile App** – where students add and view tasks.
- **Backend Server (API)** – handles requests from the app.
- **Database** – stores user accounts and tasks.

3. **Core Tools Selection**

   Mobile App:

   - **Flutter** – easy to build apps for both Android and iOS.
   - **VS Code** – simple and popular code editor.

   Backend:

   - **Node.js** – fast and easy to handle app requests.
   - **Express.js** – helps create APIs quickly.

   Database:

   - **Firebase** – easy to set up and good for student projects.

   Version Control:

   - **GitHub** – helps track changes and work as a group.

4. **Lifecycle Timeline**

   Week 1:

   - **Planning & Analysis:** decide app features and requirements

   - **Design:** create system diagram and app layout

   Week 2:

   - **Development:** build mobile app screens

   - **Development:** set up backend and database

   Week 3:

   - **Testing:** check app features and fix errors

   - **Testing:** test reminders and data storage

Week 4:

- **Deployment:** release app for testing

- **Maintenance:** fix bugs and make small improvements

5. Grouping Process

1. Group members were selected from the same class.

2. Roles were assigned based on skills and interest.

3. One member became the **team leader**.

   - EDRHIAN PANLILIO

4. Two members worked on **development**.

   - JOEMARK MUYCO / MARK NIEDO

5. One member handled **testing and documentation**.

   - JUSTINE BERNARDINO / RENZ NATHANIEL RAMISO

6. All members communicated using **Messenger**.