

Day 16: Working with JSON - Daily Assignment & Test

Daily Assignment Questions (2 Questions)

1. Develop a Student Management System using JSON

Create a Python program that:

- Stores **student records** (name, age, subjects, and grades) in a JSON file.
- Provides options to **add, update, delete, and retrieve student data**.
- Uses `json.dump()` to write data to a file and `json.load()` to read from the file.
- Handles **error cases** (e.g., file not found, incorrect JSON format).

Test Cases:

- Add a new student and save it to the JSON file.
 - Retrieve a student's record and display it.
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2. Convert JSON String to Dictionary and Modify Data

- Given a JSON string, convert it into a Python dictionary, modify a specific key-value pair, and print the updated JSON.

Test Cases:

- Ensure the dictionary updates correctly.
 - Check if the modified JSON is valid.
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