

Part 1: Project Title “Student Registration & Quiz System”

Part 2: Instructions:

Objective:

Build a small Python system using:

- print, input
- variables
- string methods
- list, tuple, dict
- loops and conditions

Scenario:

You are creating a Student Registration & Quiz System that allows:

- Registering students (name, age, subjects)
- Taking a Python quiz
- Viewing the report

Tasks

Task 1 — Registration

Create a function called `register_student()` that:

- Asks for name, age, and favorite subjects (comma-separated).
- Converts subjects into a tuple.
- Stores all data inside a dictionary.
- Adds that dictionary to a list called `students`.
- Prints a success message.

Task 2 — Quiz Function

Create a function called `start_quiz(student)` that:

- Contains at least 3 questions stored in a list of dictionaries.
- Each question dictionary has "question" and "answer" keys.
- Uses a loop to ask each question.
- If the answer is correct → add +1 to score.
- Save the score inside the student's dictionary.

Task 3 — Report Function

Create a function called `show_report()` that prints all students' info clearly:

- Name, Age, Subjects, Score

Task 4 — Main Menu

Create a looped menu like this:

Main Menu: 1- Register Student 2- Start Quiz 3- Show Report 4- Exit

Depending on the user's choice:

- 1 → call `register_student()`
- 2 → ask for the student name, then `start_quiz(student)`
- 3 → `show_report()`
- 4 → Exit

Task 5 — Bonus (Optional)

Save all student data to a file `students.txt` before exiting the system using:

with `open("students.txt", "w") as f:` for `s` in `students`: `f.write(str(s) + "\n")`