

## **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")