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Course: ITT103

GitHub Public URL to Code:

**Program Purpose:**

This program executes a Hospital Management System in Python. This program allows users to:

* Add a new patient and doctor
* Book and cancel appointments
* Generate a bill
* View patient profiles and doctor schedules

**Program Functionalities:**

1. Add Patient - This allows the user to input the name, age, and gender of a patient and then generates an ID number for the patient.
2. Add Doctor- This allows the user to input the name, age, gender, and specialty of a doctor and then generates an ID number for that doctor.
3. Book Appointment – This option schedules an appointment for a patient if the doctor is available.
4. Cancel Appointment – This cancels an appointment using the appointment ID.
5. Generate Bill – Calculate the total cost.
6. View Patient Profile – View Patient details.
7. View Doctor Profile – View Doctor’s details.

How to run the program:

1. Ensure that Python 3 is installed on your computer.

2. Download the code file from the provided GitHub URL.

3. Open a terminal (Command Prompt on Windows or Terminal on macOS/Linux).

4. Navigate to the folder where the code file is saved.

5. Type the program name and press Enter.

6. Follow the on-screen menu instructions to use the system.

**Required Modifications:**

1. The code could be updated to store information to be reused after the user exits the Python program.
2. The program could also allow the user to update the Patient and Doctor information from the View Profile option.
3. Improve error handling throughout the program.

**Assumptions and limitations:**

1. When the program closes, all patients, doctors, and appointments are lost.
2. The program does not check if there are duplicate patient and doctor names