Programming Project / C++ - Dental Office Appointment System –

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I. Task Description:

Student 1 is responsible for managing the dental office:

- Adding and deleting appointments for all patients
- Viewing appointments

Student 2 is responsible for interacting with the dental office:

- Adding and deleting appointments from a personal appointment list
 - Creating an appointment, seeing appointment history
 - Checking if a date is available
 - Viewing all available operations
- II. Data Structures Used by the Team

The following classes will be used:

- Appointment: Operation operation, Date date, string patientName
- Date: int year, int month, int hour, int minute, int day
- Operation: string name, double price, int duration

For appointmentHistory an array will be used.

III. File Structure

The following files will be used:

operations.txt

A file where details about the available dental operations will be stored in the form:

```
<operation_name1> <price> <duration_in_minutes>
```

<operation_name2> <price> <duration_in_minutes>

```
appointments.txt
   A file where details about scheduled appointments will be stored:
    <patient name1> <operation name1> <price>
<duration in minutes> <day> <month> <year> <hour> <minute>
    <patient name2> <operation name2> <price>
<duration in minutes> <day> <month> <year> <hour> <minute>
    IV. Interacting with Executables
   Application 1 will offer the following options:
       ./app 1.exe view appointments
       To view all available appointments for all patients
       ./app_1.exe add_appointment <patient_name>
                       <price> <duration in minutes> <day>
<operation name>
<month> <year> <hour> <minute>
     To add an appointment for a patient
     ./app 1.exe delete appointment <patient name>
                             <price> <duration in minutes> <day>
     <operation name>
     <month> <year> <hour> <minute>
     To delete an appointment for a patient
     ./app 1.exe view appointments
     To view appointments for all patients
   Application 2 will offer the following options:
       ./app 2.exe view appointments
       To view your appointments
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./app 2.exe add appointment <patient name>

<operation name>

<month> <day> <hour> <minute>

<price> <duration in minutes> <year>

To add an appointment for you

To delete an appointment for you

./app2.exe check_availability <day> <month> <year> <hour> <minute>

To check availability for a given date

./app_2.exe view_operations

To view a list of operations