Assignment 3
Appointment Calendar

Group: G1

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To: TA
From: Students
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Subject: Introduction to our project.

This project simply manages the time for anyone who needs it. The project is able to add, modify, remove, appointments without overlapping. Also, the user will be in control of everything due to the simplicity of the user interface of the program.

CC: Dr. Mohamed El-ramly

Introduction:

Our project will be about to appointments, adding appointments, modifying appointments, removing, or even displaying the appointments of the day or week. This will help the user to manage his time in the right and helpful way.

Audience:

The people who has hard life system or a time management problem as a start. Or it can be anyone just wants to manage their time and use it correctly. This program should help and guide them to the rightful way to manage and keep up with appointments all week long.

Propose:

The main purpose of this program that it manages and displays time of the day or the week.
Also, it allows the user to do modifications and operations on the appointments which will satisfy the need of the user.

Scope:

We will be covering these specific points in the project:

- Adding appointments for a day or multiply days.
- Removing appointments.
- Displaying appointments of the day or week.
- Generally modifying on the appointment.
- Doing operations on the appointments.
- Check if two appointments are overlapped.

Description:

The program appointment has so many features that satisfies the user's need. The program is able to add an appointment, remove an appointment, modify on an appointment, check equality of two appointment, check if two appointment are overlapped, check if two days have equal appointments, display the appointment of the day, display the appointment of the week, the program loops until the user exists and takes the user's choice and do the chosen operation as many times as the user wished.

The program is able to do operations that checks if an appointment is earlier or an appointment is later than another appointment, or checks if two appointments are on the same time, or equal two appointments to each other in two days.

The interface of the project is extremely simple, so that the user should be able to interact with.

In order to implement this features correctly, we did the following (You can consider it as explain for the OOP features):
1- We created 4 classes.
2- Each class uses inheritance from the class before it.
3- Each class uses variables of data type of the previous class (except the first class takes a normal variables).
4- Each class has operators to enter information in it and print this information.
5- Each class has functions that does operations on the appointments like: checking if the two appointments are equal in time and day, or checking if two appointments are overlapped, or checking if one of the two appointments is earlier or later than the other appointment, checking if two classes not equal to each other, and more.
6- The program is able to display the appointments of a day or multiple days, modifying on the appointments by the user, removing an appointment, adding more appointments, makes an appointment equal to another appointment. All of this controlled by the user.

Conclusion/Overall appraisal:

To sum up, our goal of the program is to save time for the customer or mainly anyone uses it.

The program has so many features listed below:
1. It is able to add appointments in a day or multiple days.
2. It is able to remove these appointments if the user wishes so.
3. The program can do operations like checking equality or equal one appointment to another.
4. It will loop until the user give it an order.
5. The program can dose not overlap two appointments.
4. The program can display the day appointment or week appointment.

With these features, the need of the user should be fulfilled by saving his time correctly.