

Exercises for Chapter 10 – Indexers

Exercise 1

The Weekly Schedule Exercise

- A clinic requires receptionists to handle the clients through the doctors working hours.
 - The clinic always work 5 days a week (Sunday to Thursday), 4 hours a day
 - The number of hours per day may be changed through object's initialization
 - The clinic employs several receptionists who work in shifts
 - At the end of each week, each receptionist assigns its working hours for the next week
- To better handle the process of scheduling the receptionists every week you should provide the clinic with a **WeeklyScheduler** class.
- The **WeeklyScheduler** should keep a weekly scheduling table:
 - For every day, for every hour in the day, the name of the receptionist working
 - To simplify setting and retrieving the name of the receptionist that works at a specified hour at a specified day, the **WeeklyScheduler** should enable read / write access to any hour in any day of the week
- To make your **WeeklyScheduler** more informative, enhance it to also hold the date of the starting day of the week
- Provide read/write access to the week's starting date