

Hacettepe University
Computer Science and Engineering Department
ASSIGNMENT 3

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Course : BBM104
Subjects : Inheritance and Polymorphism
Due Date : 22.05.2020 (23:59)
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PROBLEM

To develop a Hospital Management System which provides basic operations as adding or removing patients, creating admission and examinations etc.

SOLUTION APPROACH

Design pattern is used for adding more than one examination within one admission to a patient.

Data Access Object Pattern is used for getting inputs from separate data files.

ALGORITHM

1. Read “patient.txt” and create a “patients” arraylist which contains *patient objects*.
2. Read “admission.txt” and create a “map” TreeMap which contains admissions with patients.
3. Read “input.txt” and do operations given in the file with relevant methods.
4. Create an “output.txt” and write into information about operations.
5. Update “patient.txt”, “admission.txt” , “output.txt” and close all the files.

UML DIAGRAM

