

## Hospital Consultancy Application

A group of Consultant (s) want to manage their practice. The practice has four soon to be five or more consultants. Consultants have patients. Patients meet with consultants.

Write an application to manage Consultants, patients and patient's visits with consultants. We are recording patient visits that have occurred not an appointment system.

Each class written should have getters and setters for each field and a toString and a .equals method.

### Java Classes Required

1. A **Name** class. This stores details of a name

```
String firstname  
String lastName
```

2. A **Person** class. This is a super class for all people in the Application. Its attributes are:

```
Name name  
String id  
String phone
```

3. A **Practice** class. This holds a collection of Consultants. List of Consultants

```
Operations: Add  
Consultant show  
consultant list find  
a consultant  
Show details for all consultants  
Find a Patient* ( add a visit)
```

4. A **Consultant** class. This is a subclass of Person. Consultant's have a collection of patients and an expertise

```
List of Patients  
String expertise  
Operations:  
Add patients  
Add a patient visit  
Show all Patients  
Show all Patients and Visits
```

5. A **Patient** class. This class is a subclass of Person. It also holds an illness description and a severity. Severity is graded one to five, one is mild, five is severe. Each patient has a collection of visits.

List of Visits

String illness

enum severity

Operations:

Add a visit

show all visits

6. A **Visit** class. This records a visit by a patient to the consultant that they are attending. This will have the following fields:

LocalDate date of a visit

String notes

## Test Code

As you write each class you should implement tests for that class in your test class. Once all the classes are written you should have a test class which (via hard coding)

- creates a practice
- adds 3/4 consultants
- add patients consultants o Consultants should have have 0 1 or 1+ patients • adds visits for patients.
  - o Patients should have have 0 1 or 1+ visits
- display all consultants followed by a list of patients – showing the visits for those patients.

## Application Code

Provide a menu (command line driven) in your Test class which has the following options:

1. Record a Patient visit.
2. Display all patients of a particular Consultant.
3. Display all Consultants followed by their Patients followed by their visits.
4. Load information from a text file. (see below)
5. Quit

