**Important Instructions:**

·     Please read the document thoroughly before you code.

·     Import the given skeleton code into your Eclipse.

·     Do not change the Skeleton code or the package structure, method names, variable names, return types, exception clauses, access specifiers etc.

·     You can create any number of private methods inside the given class.

·     You can test your code from main() method of the program

·     Using Spring Core develop the application using Java based configuration.

**Assessment Coverage:**

* **Classes, Objects and Members, Setter Injection**
* **Property  Configuration**
* **Junit**

**Purpose:**

**Patient Information:**

A famous city hospital has to manage the patient records. This helps the doctor to manage the patient records.

**Skeleton File for Development:**

Import the below attached skeleton code into your eclipse project and implement the required functionalities



Provided **Patient**class with the following private attributes: 

|  |  |
| --- | --- |
| **Member Field Name** | **Type** |
| pid | String |
| pname | String |
| disease | String |
| sex | String |
| admit\_status | String |
| age | Integer |

**Getter and setter** methods for all the above attributes have been provided as a part of code skeleton.

The values for these attributes should **be injected via properties file**.

Provided **PatientService** class with the following private attributes:

|  |  |
| --- | --- |
| **Member Field Name** | **Type** |
| patient | Patient |

**Service**class should be registered as a **bean** with the spring container via **Java Configuration class**.

**Main.java: main(String[] arg):void**

1. Using ApplicationContext, get PatientService bean.
2. Invoke the getPatientDetails() method using PatientServiceBean.

**Technical Specifications:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Component Name** | **Method Name** | **Input** | **Output** | **Exception** |
| PatientService | getPatientDetails |  | void |  |
| AppConfig.class | Contains all the Java configurations related to Service |  |  |  |

**Business Rules & Validations:**

In **PatientService class**includes the following private attribute **and inject via setter based injection**.

private Patient patient;

**Getter and setter** methods for the above attribute has been provided as a part of code skeleton

**Service 1**: **getPaientDetails(): void**

1. Use  Patient Bean, get the Patient information.

**Limitations and Constraints:**

1.  **Patient class**should be in**com.cts.patient.model**package.

2.  **PatientService**class should be in**com.cts.patient.service**package**.**

3.   **Main class**should be in **com.cts.patient** package.

4.   All of the above mentioned java classes to be configured as beans in **AppConfig.java** file

5.   **patient** should be declared as an **inner bean** in the **PatientService** class and should

      be injected by autowire inside **AppConfig.java.**

6. Use ONLY **AppConfig.java** for all configurations.

**Sample output**

Patient Id : P1000

Patient Name : ABC

Disease : fever

Sex : female

Admit Status : yes

Age : 55