Dependency Injection

Create a project named 05\_DependencyInjection and copy the previous project files (named 04\_BeanProperties) at our new project and we will work from there.

1. Create Address Class
2. Add two properties: street and postcode
3. Generate Setter and getter
4. Generate constructors
5. Generate toString()

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| **package** com.corespring.learning.DependencyInjection;  **public** **class** Address {  **private** String street;  **private** String postCode;  **public** **Address**() {  }  **public** **Address**(String street, String postCode) {  **this**.street = street;  **this**.postCode = postCode;  }  **public** String **getStreet**() {  **return** street;  }  **public** **void** **setStreet**(String street) {  **this**.street = street;  }  **public** String **getPostCode**() {  **return** postCode;  }  **public** **void** **setPostCode**(String postCode) {  **this**.postCode = postCode;  }  ***@Override***  **public** String **toString**() {  **return** "Address [street=" + street + ", postCode=" + postCode + "]";  }  } |

1. Add address bean to beans.xml
2. Add constructor arg to address bean

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| <?xml version="1.0" encoding="UTF-8"?>  <beans xmlns="http://www.springframework.org/schema/beans"  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans.xsd">  <bean id="patient" class="com.corespring.learning.BeanProperties.Patient"  lazy-init="false">  <constructor-arg value="1" name="id"></constructor-arg>  <constructor-arg value="Shekhar" name="name"></constructor-arg>  <property name="nationalId" value="1234"></property>  </bean>  <bean id="address" class="com.corespring.learning.DependencyInjection.Address"  autowire-candidate="default" abstract="false">  <constructor-arg name="street" value="11/3 BB Ghosh Lane"></constructor-arg>  <constructor-arg name="postCode" value="7000"></constructor-arg>  </bean>  </beans> |

1. Use address bean at App.java class
2. Run App.java
3. Define address attribute at Patient.java class and create setter and getter
4. Regenerate toString()
5. At beans.xml we need to add address properties at patient bean
   1. Name will be the field name= address
   2. Reference will be the bean id=address
6. Now only print patient object