

```
/*
Pro Spring
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*/
```

```
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
```

```
//File: beans.xml
```

```
<!DOCTYPE beans PUBLIC "-//SPRING//DTD BEAN//EN" "http://www.springframework.org/dtd/spring-
beans.dtd">
<beans>
  <!-- injecting built-in vals sample -->
  <bean id="injectSimple" class="InjectSimple">
    <property name="name">
      <value>John Smith</value>
    </property>
    <property name="age">
      <value>35</value>
    </property>
    <property name="height">
      <value>1.78</value>
    </property>
    <property name="isProgrammer">
      <value>true</value>
    </property>
    <property name="ageInSeconds">
      <value>1103760000</value>
    </property>
  </bean>

  <!-- oracle bean used for a few examples -->
  <bean id="oracle" name="wiseworm" class="BookwormOracle"/>

  <!-- injecting reference sample (using id) -->
  <bean id="injectRef" class="InjectRef">
    <property name="oracle">
      <ref local="oracle"/>
    </property>
  </bean>

  <!-- inject ref sample (using name) -->
  <!-- <bean id="injectRef" class="InjectRef">
    <property name="oracle">
      <ref bean="wiseworm"/>
    </property>
  </bean> -->
</beans>
```

```
////////////////////////////////////  
public interface Oracle {  
  
    public String defineMeaningOfLife();  
}
```

```
////////////////////////////////////  
public class InjectRef {  
  
    private Oracle oracle;  
  
    public void setOracle(Oracle oracle) {  
        this.oracle = oracle;  
        System.out.println(oracle.defineMeaningOfLife());  
    }  
}
```

```
////////////////////////////////////  
public class BookwormOracle implements Oracle {  
  
    private Encyclopedia enc;  
  
    public void setEncyclopedia(Encyclopedia enc) {  
        this.enc = enc;  
    }  
  
    public String defineMeaningOfLife() {  
        return "Encyclopedia's are a waste of money - use the Internet";  
    }  
}
```

```
////////////////////////////////////  
public class Encyclopedia {  
  
}
```

```
////////////////////////////////////  
import org.springframework.beans.factory.BeanFactory;  
import org.springframework.beans.factory.xml.XmlBeanFactory;  
import org.springframework.core.io.FileSystemResource;  
  
public class InjectSimple {  
  
    private String name;  
  
    private int age;  
  
    private float height;
```

```

private boolean isProgrammer;

private Long ageInSeconds;

public static void main(String[] args) {
    BeanFactory factory = new XmlBeanFactory(new FileSystemResource(
        "build/beans.xml"));
    InjectSimple simple = (InjectSimple)factory.getBean("injectSimple");
    factory.getBean("injectRef");
    System.out.println(simple);
}

public void setAgeInSeconds(Long ageInSeconds) {
    this.ageInSeconds = ageInSeconds;
}

public void setIsProgrammer(boolean isProgrammer) {
    this.isProgrammer = isProgrammer;
}

public void setAge(int age) {
    this.age = age;
}

public void setHeight(float height) {
    this.height = height;
}

public void setName(String name) {
    this.name = name;
}

public String toString() {
    return "Name :" + name + "\n"
        + "Age:" + age + "\n"
        + "Age in Seconds: " + ageInSeconds + "\n"
        + "Height: " + height + "\n"
        + "Is Programmer?: " + isProgrammer;
}
}

```