<Example4Sure> Spring Tutorial

Spring Autowiring by Name

> In Spring, If the name of a bean is same as the name of other bean property is called "Autowiring by Name".

Example:

1. Create an Engine.java class public class Engine { 12 13 14 private String engineID; 15 private String validity; 16 17 public String getEngineID() { 18 return engineID; 19 20 public void setEngineID(String engineID) { 21 this.engineID = engineID; 22 23 public String getValidity() { 24 return validity; 25 26 public void setValidity(String validity) { 27 this.validity = validity; 28 29 @Override 30 public String toString() { return "Engine [engineID=" + engineID + ", validity=" + validity + "]"; 31 32 33 }

2. Create Truck.java class.

```
12
     public class Truck {
13
14
         private Engine engine;
15
16
         public Engine getEngine() {
17
             return engine;
18
         }
19
20
         public void setEngine(Engine engine) {
21
             this.engine = engine;
22
         }
23
24
     }
```

<Example4Sure> Spring Tutorial

3. Configure Truck and Engine classes in Spring-Core.xml configuration file.

```
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
11
12
         xsi:schemaLocation="http://www.springframework.org/schema/beans
13
         http://www.springframework.org/schema/beans/spring-beans-3.0.xsd">
14
15
         <bean id="engine" class="com.java2learn.core.Engine">
16
             cproperty name="engineID" value="123"></property>
17
             property name="validity" value="3Yrs.">
18
         </bean>
         <bean id="truck" class="com.java2learn.core.Truck" autowire="byName"/>
19
20
21
    </beans>
```

4. Create the client program.

```
12
       import org.springframework.context.ApplicationContext;
  13
       import org.springframework.context.support.ClassPathXmlApplicationContext;
  14
      import com.java2learn.core.Truck;
  15
  16
      public class ApplicationContextDemo {
  17
  18
          public static void main(String[] args) {
  19
ApplicationContext applicationContext=new
ClassPathXmlApplicationContext("Spring-Core.xml");
         Truck truck=(Truck)applicationContext.getBean("truck");
         System.out.println("Validity::"+truck.getEngine().getValidity());
         System.out.println("Engine ID::"+truck.getEngine().getEngineID());
    }
}
```

Output:

Validity::3Yrs. Engine ID::123

?