<Example4Sure> Spring Tutorial

Constructor Injection

Example:

1. Create the Employee class.

```
12
     public class Employee {
13
14
         private String name;
15
         private int age;
         private double salary;
16
17
         //injecting name,age and salary in the constructor
18
19
         public Employee(String name, int age, double salary) {
20
             this.name = name;
21
             this.age = age;
22
             this.salary = salary;
23
24
25
         public String getName() {
26
             return name;
27
28
29
         public int getAge() {
30
             return age;
31
32
33
         public double getSalary() {
34
             return salary;
35
36
37
         @Override
38
         public String toString() {
             return "Employee [name=" + name + ", age=" + age + ", salary=" + salary
39
40
41
         }
42
    }
```

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```
2. Create the Company class(POJO).
12
      public class Company {
13
14
          private String name;
15
          private String compnayType;
16
          private Employee employee;
17
18
          //injecting name,compnayType and employee in the constructor
19
          public Company(String name, String compnayType, Employee employee) {
20
21
              this.name = name;
22
              this.compnayType = compnayType;
23
              this.employee = employee;
24
          }
25
26
          public Employee getEmployee() {
27
              return employee;
28
          }
29
30
          public String getName() {
31
              return name;
32
33
 34
          public String getCompnayType() {
 35
                return compnayType;
 36
 37
 38
           @Override
           public String toString() {
 39
               return "Company [name=" + name + ", compnayType=" + compnayType
 40
                        + ", employee=" + employee + "]";
 41
 42
           }
 43
       }
```

3. Create the Configuration file and add Company and Employee POJO's to the configuration file.

```
10
     <beans xmlns="http://www.springframework.org/schema/beans"</pre>
11
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
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="employee" class="com.java2learn.core.Employee">
             <constructor-arg name="name" value="Rock"></constructor-arg>
16
17
             <constructor-arg name="age">
18
                 <value>52</value>
19
             </constructor-arg>
             <constructor-arg name="salary" value="521352.4"></constructor-arg>
20
21
22
23
         </bean>
```

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```
<bean id="company" class="com.java2learn.core.Company">
 25
              <constructor-arg name="name" value="GOOGLE"></constructor-arg>
 26
 27
              <constructor-arg name="compnayType">
 28
                  <value>PRODUCT</value>
 29
              </constructor-arg>
              <constructor-arg ref="employee"></constructor-arg>
 30
 31
          </bean>
 32
 33
      </beans>
4. Create the client and run it.
      import org.springframework.context.ApplicationContext;
 13
      import org.springframework.context.support.FileSystemXmlApplicationContext;
 14
      import com.java2learn.core.Company;
 15
      public class ApplicationContextDemo {
 16
 17
          public static void main(String[] args) {
//ApplicationContext applicationContext=new
ClassPathXmlApplicationContext("Spring-Core.xml");
         //(or)
         ApplicationContext applicationContext=new
FileSystemXmlApplicationContext("classpath:Spring-Core.xml");
         Company company=(Company) applicationContext.getBean("company");
         System.out.println("Company ::"+company);
         System.out.println("Employee::"+company.getEmployee());
         System.out.println("Employee
Salary::"+company.getEmployee().getSalary());
}
```

Output:

```
Company :: Company [name=GOOGLE, compnayType=PRODUCT, employee=Employee [name=Rock, age=52, salary=521352.4]]

Employee:: Employee [name=Rock, age=52, salary=521352.4]

Employee Salary:: 521352.4
```