

## Create bean factory - using Hibernate. ( Dependency Example )

Create a Maven ( Quick start project ) and mentioned the group id ( ***com.spring.practice*** ), and artifactid ***DIExample1***

Create a model name **Department** in **com.spring.practice.DIExample1** package under src/main/java

```
package com.spring.practice.DIExample1;

public class Department {
    private int deptno;
    private String dname;

    public Department(int deptno, String dname) {
        this.deptno = deptno;
        this.dname = dname;
    }

    public int getDeptno() {
        return deptno;
    }
    public String getDname() {
        return dname;
    }
}
```

Create a model name **Employee** in **com.spring.practice.DIExample1** package under src/main/java

```
package com.spring.practice.DIExample1;

public class Employee {
    private int empid;
    private String name;

    public int getEmpid() { return empid; }
    public void setEmpid(int empid) {
        this.empid = empid;
    }
    public String getName() { return name; }
    public void setName(String name) {
        this.name = name;
    }
}
```

Then, create a package name **resources** under src/main/java folder and add file with name as a **spring-config.xml**

```
<?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="department" class =
"com.spring.practice.DIExample1.Department">
        <constructor-arg name="deptno" value="10"/>
        <constructor-arg name="dname" value="EDP"/>
    </bean>
    <bean id="employee" class =
"com.spring.practice.DIExample1.Employee">
        <property name="empid" value="101"/>
        <property name="name" value="Jalpa Patel"/>
    </bean>

</beans>
```

Then add the below dependency in **pom.xml** file between

```
<dependencies>
    -----
</dependencies>

    <dependency>
        <groupId>org.springframework</groupId>
        <artifactId>spring-core</artifactId>
        <version>6.0.11</version>
    </dependency>
    <dependency>
        <groupId>org.springframework</groupId>
        <artifactId>spring-context</artifactId>
        <version>6.0.11</version>
    </dependency>
```

Then add the below code in App.java file.....

```
package com.spring.practice.DIExample1;
import org.springframework.beans.factory.BeanFactory;
import
org.springframework.context.support.ClassPathXmlApplicationContext;
public class App
{
    public static void main( String[] args )
    {
        @SuppressWarnings("resource")
        BeanFactory factory = new ClassPathXmlApplicationContext
            ("resources/Spring-Config.xml");
        Department department = (Department)
factory.getBean("department");

        Employee employee = factory.getBean("employee", Employee.class);

        System.out.println("Department Data");
        System.out.println("-----");
        System.out.println("Department No :" + department.getDeptno()
+ "\n" +
            "Department Name :" + department.getDname());

        System.out.println("\nEmployee Data");
        System.out.println("-----");
        System.out.println("Employee Id :" + employee.getEmpid() +
"\n" +
            "Employee Name :" + employee.getName());
    }
}
```