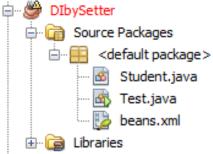
Ex 13: Create a Java application to make use of Dependency injection using Setter methods.

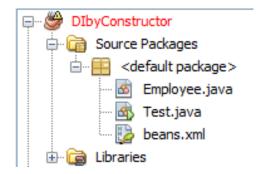


```
Step 1:
Student.java
public class Student {
private String name;
public String getName(){
  return name;
}
public void setName(String name){
  this.name=name;
}
public void displayInfo(){
  System.out.println("Hello:" +name);
}
}
Beans.xml
<?xml version="1.0" encoding="UTF-8"?>
<beans
    xmlns="http://www.springframework.org/schema/beans"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:p="http://www.springframework.org/schema/p"
    xsi:schemaLocation="http://www.springframework.org/schema/beans
```

```
http://www.springframework.org/schema/beans/spring-beans-3.0.xsd">
  <bean id="studentbean" class="Student">
    roperty name="name" value="Vikas"/>
  </bean>
</beans>
Test.java
import\ org. spring framework. context. Application Context;
import\ org. spring framework. context. support. Class Path Xml Application Context;
public class Test {
  public static void main(String args[]){
    ApplicationContext context = new ClassPathXmlApplicationContext("beans.xml");
    Student obj;
    obj = (Student) context.getBean("studentbean");
    obj.getName();
    obj.displayInfo();
  }
  }
Output:
```

Hello:Vikas

Ex 14: Create a Java application to make use of Dependency injection using Constructor.



Step 1:

```
Employee.java
public class Employee {
private int id;
private String name;
public Employee() {
  System.out.println("def cons");}
public Employee(int id) {
  this.id = id;}
public Employee(String name) {
  this.name = name;}
public Employee(int id, String name) {
  this.id = id;
  this.name = name;
}
void show(){
  System.out.println("ID="+id+ " & Name="+name);
}
}
```

```
Beans.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"
    xmlns:p="http://www.springframework.org/schema/p"
    xsi:schemaLocation="http://www.springframework.org/schema/beans
    http://www.springframework.org/schema/beans/spring-beans-3.0.xsd">
  <bean id="e" class="Employee">
    <constructor-arg value="10" type="int"/>
    <constructor-arg value="Vikas" />
  </bean>
  </beans>
Test.java
import org.springframework.beans.factory.BeanFactory;
import org.springframework.beans.factory.xml.XmlBeanFactory;
import org.springframework.core.io.*;
public class Test {
  public static void main(String[] args) {
    Resource r=new ClassPathResource("beans.xml");
    BeanFactory factory=new XmlBeanFactory(r);
    Employee s=(Employee)factory.getBean("e");
    s.show();
  }
}
```