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# Chapter 4. JAVABEANS JSP

JAVABEANS JSP 가 BEAN  
JSP  
GUI  
JSP JavaBeans JavaBeans  
<http://java.sun.com/beans>  
가 ?  
가  
가  
가 JSP 가  
1. 가  
2. public  
3.  
4. public  
가 ( )  
public  
getXxx  
Boolean 가  
setXxx isXxx public  
public jsp jsp public

## **jsp:useBean**

가 . jsp:useBean .

```
<jsp:useBean id="name" class="package.Class" />
```

```

        "package.Class"          name          ."
        .
        . jsp:useBean          new
        .
        . package.Class name = new package.Class();
        . class          beanName          , beanName
    
```

```

serializable          bean          beanName
        . beanName          java.beans.Beans          instantiate
        . Instantiate          classLoader          beanName
        beanName          가 jsp:useBean          beanName
    
```

가 type

가

```

        . <jsp:useBean id="myThread" class="MyClass"
type="Runnable" />
    
```

```

        Runnable myThread = new MyClass();
    
```

```

        , beanName          type
    
```

```
<jsp:useBean id="name" scope="page|request|session|application" typeSpec />
```

```

typeSpec ::= class="className" |
            class="className" type="typeName" |
            type="typeName" class="className" |
            baenName="beanName" type="typeName" |
            type="typeName" beanName="beanName" |
            type="typeName"
    
```

## **jsp:getProperty**

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## jsp:getProperty

```
<jsp:getProperty name="name" property="property" >
```

|          |         |        |          |
|----------|---------|--------|----------|
| name     | useBean | id     | property |
| property | ,       | getXxx | Xxx      |

```
<jsp:getProperty name="nameClass" property="name" />
```

```

    nameClass.getName();
    nameClass.getName();

```

## jsp:setProperty

### jsp:setProperty

```
<jsp:setProperty name="nameClass" property="name" value="John" />
```

|                           |             |                     |
|---------------------------|-------------|---------------------|
| nameClass.setName("John") | getProperty | name                |
| jsp:useBean               | id          | property setXxx Xxx |

```
<jsp:setProperty name="beanName" prop_expr />
```

```

prop_expr ::= property="*" |
            property="propertyName" |
            property="propertyName" param="parameterName" |
            property="propertyName" value="propertyValue"
propertyValue ::= string

```

|       |       |       |
|-------|-------|-------|
|       | param | value |
| value |       |       |

## Example

가

NOTE

```

        가
        가
Tomcat resin WEB-
INF/classes 가 . classes
package.class 가 classes
        List 4.1 com.boolpae.jsp.NameBean
        , com 가 classes
javac -d . .java . -d
        -d
    
```

List 4.1 NameBean.java

```

package com.boolpae.jsp;

public class NameBean{
    private String name;
    private String number;

    public String getName(){
        return name;
    }

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

    public String number(){
        return number;
    }

    public void setNumber(String number){
        this.number = number;
    }
}
    
```

List 4.2 Name.jsp

```

<%@ page contentType="text/html; charset=euc-kr" %>
<jsp:useBean id="nameTest" class="com.boolpae.jsp.NameBean" />
<HTML>
<HEAD>
<TITLE> JavaBeans Test </TITLE>
</HEAD>

<BODY>
<center>
    
```

```

<h1> Name / Number Test </h1>
name property      : <jsp:getProperty name="nameTest" property="name"
/><br>
number property    : <jsp:getProperty name="nameTest" property="number"
/><br>
<hr>

name, number property ...
<jsp:setProperty name="nameTest" property="name" value="    " /><br>
<jsp:setProperty name="nameTest" property="number" value="0001919" /><br>
<hr>

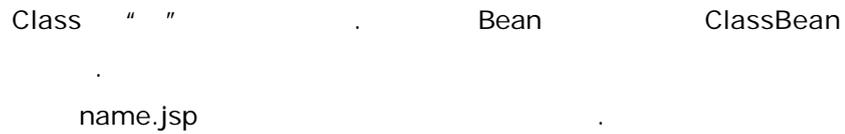
name property      : <jsp:getProperty name="nameTest" property="name"
/><br>
number property    : <jsp:getProperty name="nameTest" property="number"
/><br>
<hr>

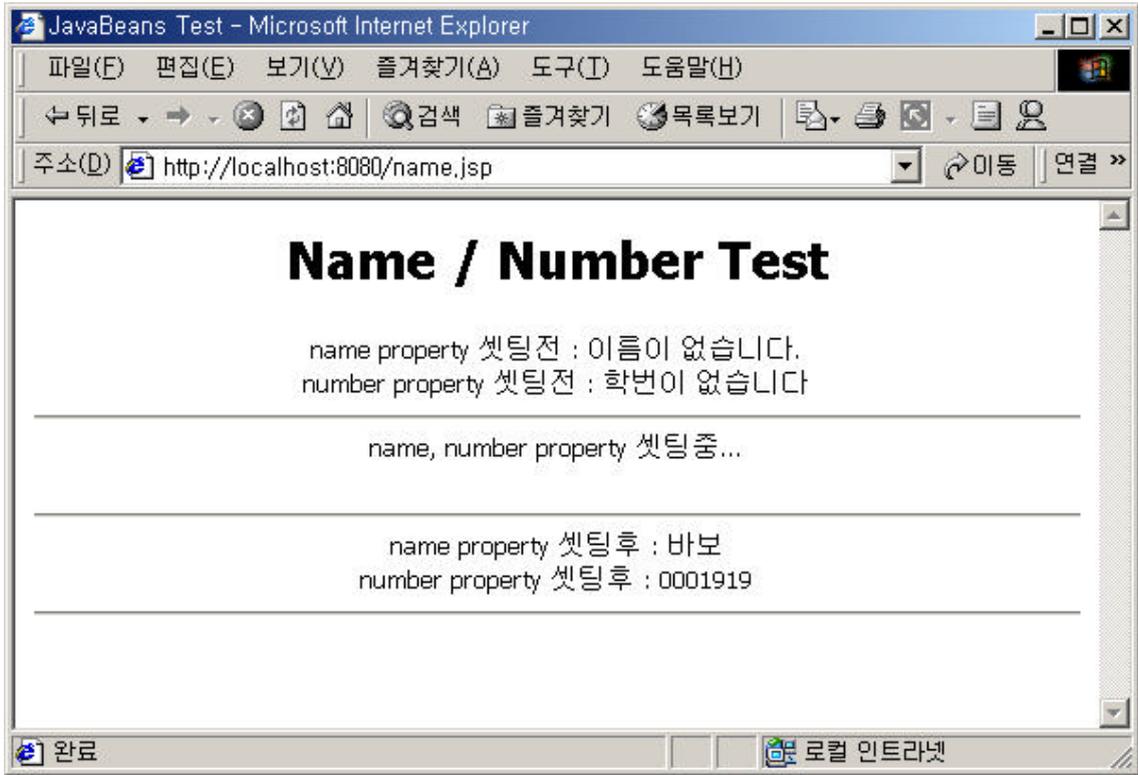
</center>
</BODY>
</HTML>

```

List 4.1/4.2

JAVABEANS





```

        . jsp:setProperty
        name    number    String    "    " , "
        "
        jsp:setProperty
"    " , "0001919"
        value

<jsp:setProperty name="nameTest" property="name"
        value="<%= request.getParameter("name") %>
        value
param
        ,
        xml

가
        set    s    Xxx    X
        s
        jsp    <jsp:setXxx >
s
        가
        s    , X
    
```

---

```

    jsp:setProperty      value      param
html

```

## List 4.3 name.html

```

<HTML>
<HEAD>
<TITLE> Name html </TITLE>
</HEAD>

<BODY>
<form action="name02.jsp">
  : <input type="text" name="name"><br>
  : <input type="text" name="number"><br>
<input type="submit">
</BODY>
</HTML>

```

## List 4.4 name02.jsp

```

<%@ page contentType="text/html; charset=euc-kr" %>
<jsp:useBean id="nameTest" class="com.boolpae.jsp.NameBean" />
<HTML>
<HEAD>
<TITLE> JavaBeans Test </TITLE>
</HEAD>

<BODY>
<center>
<h1> Name / Number Test </h1>
name property      : <jsp:getProperty name="nameTest" property="name"
/><br>
number property    : <jsp:getProperty name="nameTest" property="number"
/><br>
<hr>

name, number property      ...
<jsp:setProperty name="nameTest" property="name" param="name" /><br>
<jsp:setProperty name="nameTest" property="number" param="number" /><br>
<hr>

name property      : <jsp:getProperty name="nameTest" property="name"
/><br>
number property    : <jsp:getProperty name="nameTest" property="number"
/><br>
<hr>

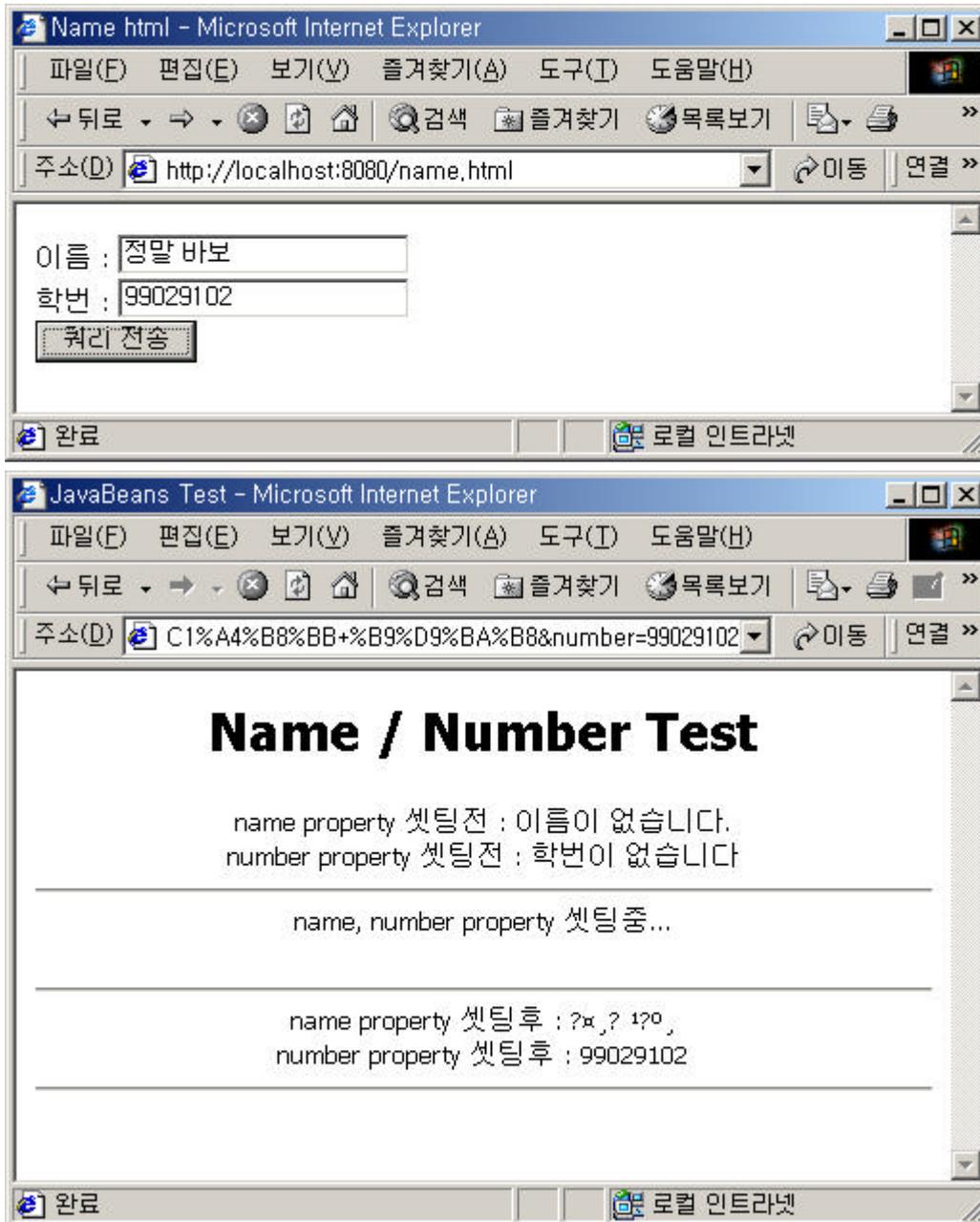
</center>
</BODY>
</HTML>

```

---

List 4.4 List4.2

.html



name number .html

. input type="text" name="name" / input type="text" name="number"

name number

name property



## List 4.5 SaleBean.java

```
package com.boolpae.jsp;

public class SaleBean{
    private String isbn = "0000";
    private int salePer = 20;
    private int cost = 10000;

    public void setIsbn(String isbn){
        if(isbn != null){
            this.isbn = isbn;
        }else{
            this.isbn = "1111";
            //
        }
    }

    public String getIsbn(){
        return isbn;
    }

    public void setSalePer(int salePer){
        if(salePer != 20){
            this.salePer = salePer;
        }
    }

    public int getCost(){
        if(isbn.equals("A0000")){
            salePer = 40;
        }
        if(salePer == 0){
            return cost;
        }else{
            return(cost - (cost*salePer/100));
        }
    }
}
```

## List 4.6 saleBean.jsp

```
<jsp:useBean id="sale" class="com.boolpae.jsp.SaleBean" />
<HTML>
<HEAD>
<TITLE> Sale Bean Test</TITLE>
</HEAD>
<BODY>
<h1> Sale Bean Test </h1>
<jsp:setProperty name="sale" property="*" />
    ISBN : <jsp:getProperty name="sale" property="isbn" /><br>
    -      20% : <jsp:getProperty name="sale" property="cost" />
```

```

<hr>
<jsp:setProperty name="sale" property="salePer" value="30" />
      - 30%           : <jsp:getProperty name="sale" property="cost" />

<hr>
<jsp:setProperty name="sale" property="isbn" value="A0000" />
      -             40% : <jsp:getProperty name="sale" property="cost" />
</BODY>
</HTML>

```

List 4.7 saleBean.html

```

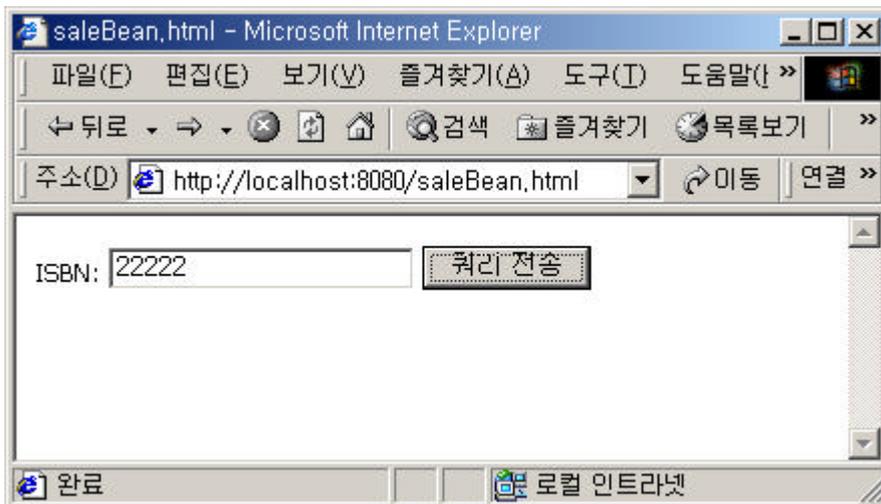
<HTML>
<HEAD>
<TITLE> saleBean.html </TITLE>
</HEAD>

<BODY>
<form action="saleBean.jsp">
isbn : <input type="text" name="isbn">
<input type="submit">
</BODY>
</HTML>

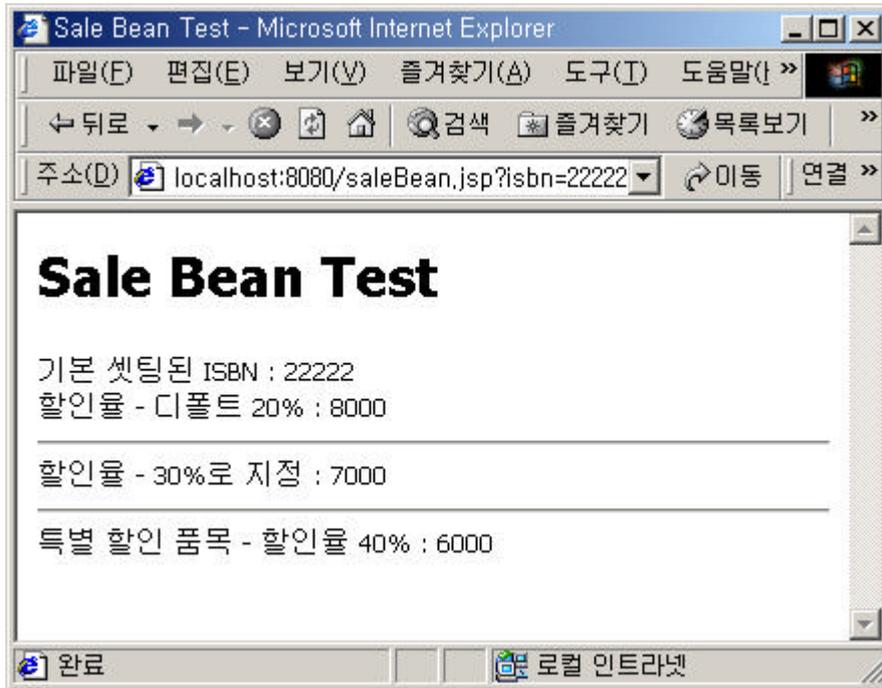
```

\* set , List4.7  
saleBean.html isbn ,  
saleBean.jsp , isbn 0000  
setXxx value 가 null setXxx 가

[SaleBean.html ]



[SaleBean.jsp ]



```

html          isbn 22222                               isbn 0000

가   useBean          (                               )
      가                               jsp:useBean      가
jsp:setProperty
    
```

```

<jsp:useBean id="testBean" class="BeanClass">
    <jsp:setProperty name="testBean" property="property" param="param" />
</jsp:useBean>
    
```

```

JSP          JAVABEANS

" "                               scope
    
```

**SCOPE**

```

3          scope
scope      scope          가
      가
    
```

```

가 page, request, session, application . page
, request , session
, application .
. Bean scope application
.

```

List 4.8 CountBean.java

```

package com.boolpae.jsp;

public class CountBean{
    private int count = 1;

    public int getCount(){
        return count++;
    }
}

```

List 4.9 count01.jsp

```

<jsp:useBean id="count" class="com.boolpae.jsp.CountBean" scope="application"
/>
<HTML>
<HEAD>
<TITLE> Count Test </TITLE>
</HEAD>
<BODY>
<h1>Counter Test</h1>
Counter : <jsp:getProperty name="count" property="count" />
<hr>
<a href="count02.jsp">Count02.jsp</a><br>
<a href="count03.jsp">Count03.jsp</a><br>
</BODY>
</HTML>

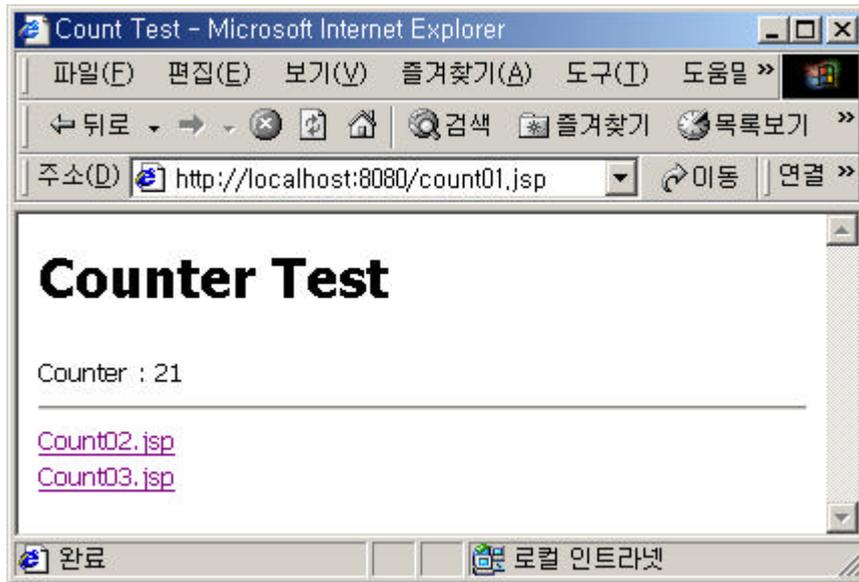
```

```

count02.jsp count03.jsp List 4.9 count01.jsp
<a href= ... > ... </a>
가 1 가 . scope
scope . session
가 , session
, scope application session
.

```

[count01.jsp ]



가

&lt;jsp:useBean&gt;

id

가

List 4.10

## List 4.10 MyBean.java

```
package com.boolpae.jsp;
```

```
public class MyBean{
    String name;

    public String getName(){
        return name;
    }

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

jsp

## List 4.11 MyBean.jsp

```
<HTML>
<BODY>
<center>
<jsp:useBean id="mybean" class="com.boolpae.jsp.MyBean" scope="application"
/>
<jsp:setProperty name="mybean" property="name" value="Bluenote" />
```

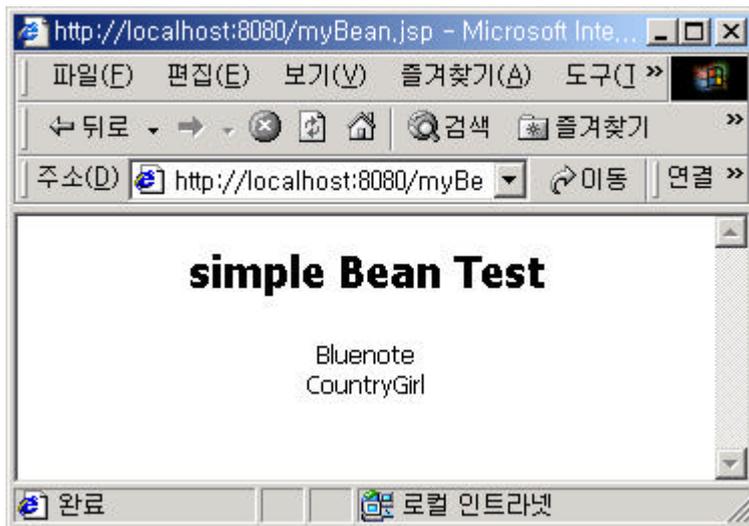
```

<jsp:useBean id="yourbean" class="com.boolpae.jsp.MyBean" scope="application"
/>
<jsp:setProperty name="yourbean" property="name" value="CountryGirl" />

<jsp:getProperty name="mybean" property="name" /><br>
<jsp:getProperty name="yourbean" property="name" /><br>
</BODY>
</HTML>

```

List 4.11 application 가 id  
 . SetProperty name (jsp:useBean  
 id )  
 MyBean myBean = new MyBean();  
 MyBean yourBean = new MyBean();



jsp

가

가

Custom Tag Library ...