

5. EL 연습

5.1 <http://localhost/el/el01>

```
@Controller
public class JstlController {

    @RequestMapping(value = "/el/el01", method = RequestMethod.GET)
    public String jstl01(Model model) {
        logger.info("el01");

        return "el/el01";
    }
}
```

✓ views/el/el01.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/fmt" prefix="fmt"%>

<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>EL 코어 라이브러리 : set</title>
</head>
<body>

<!--표현 언어(EL, Expression Language : 이렇게 값을 가져오면 편하다-->
${"Hello"} <br>
<%= "Hello"%> <br> <!--스크립트릿-->
<% out.println("Hello"); %> <br> <!--표현식( Expression)-->

<hr />

정수형 : ${10} <br> 실수형 : ${5.6} <br>
문자열형: ${"성윤정"} <br> 논리형: ${true} <br>
null : ${null} <br>

<hr />
```

```

\${5+2} : ${5+2} <br>
\${5/2} : ${5/2} <br>
\${5 mod 2} : ${5 mod 2}<br>
\${5 > 2} : ${5 > 2}<br>
\${2 gt 10} : ${2 gt 10}<br>
\${(5 > 2) ? 5 : 2} : ${ (5 > 2) ? 5 : 2}<br>
\${(5 > 2) || (2 < 10)} : ${ (5 > 2) || (2 < 10)}<br>
<%
String input=null;
%>
\${empty input} : ${empty input}<br>

</body>
</html>

```

Hello
Hello
Hello

정수형 : 10
실수형 : 5.6
문자열형: 성윤정
논리형: true
null :

$\${5+2}$: 7
 $\${5/2}$: 2.5
 $\${5 \bmod 2}$: 1
 $\${5 > 2}$: true
 $\${2 > 10}$: false
 $\${(5 > 2) ? 5 : 2}$: 5
 $\${(5 > 2) \parallel (2 < 10)}$: true
 $\${empty \ input}$: true

5.2 <http://localhost/el/el02>

```
@Controller
public class JstlController {

    @RequestMapping(value = "/el/el02", method = RequestMethod.GET)
    public String jstl02(Model model) {
        logger.info("el02");

        return "el/el02";
    }
}
```

✓ views/el/el02.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Insert title here</title>
</head>
<body>
<form method="get" action="/el/el04sub" enctype="application/x-www-form-urlencoded">
<label for="userid"> 아이디 : </label>
<input type="text" name="id" id="userid"><br>
<label for="userpwd"> 암호 : </label>
<input type="password" name="pwd" id="userpwd"><br>
<input type="submit" value="로그인">
</form>
</body>
</html>
```

<http://localhost/el/el02sub>

```
@Controller
public class JstlController {

    @RequestMapping(value = "/el/el02sub", method = RequestMethod.POST)
    public String jstl02sub(Model model) {
        logger.info("el02sub");

        return "el/el02sub";
    }
}
```

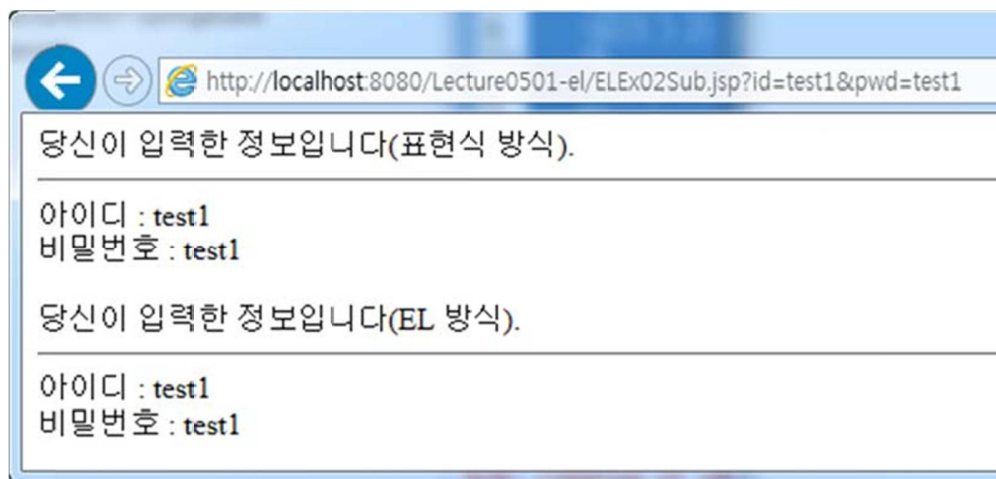
✓ views/el/el02sub.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Insert title here</title>
</head>
<body>
당신이 입력한 정보입니다(표현식 방식).
<hr>
아이디 : <%= request.getParameter("id")%> <br>
비밀번호 : <%= request.getParameter("pwd")%> <br>

<br>

당신이 입력한 정보입니다(EL
방식).
<hr>
아이디 : ${param.id} <br>
비밀번호 : ${param["pwd"]}
</body>
</html>
```



5.3 <http://localhost/el/el03>

```
@Controller
public class JstlController {

    @RequestMapping(value = "/el/el03", method = RequestMethod.GET)
    public String jstl03(Model model) {
        logger.info("el03");

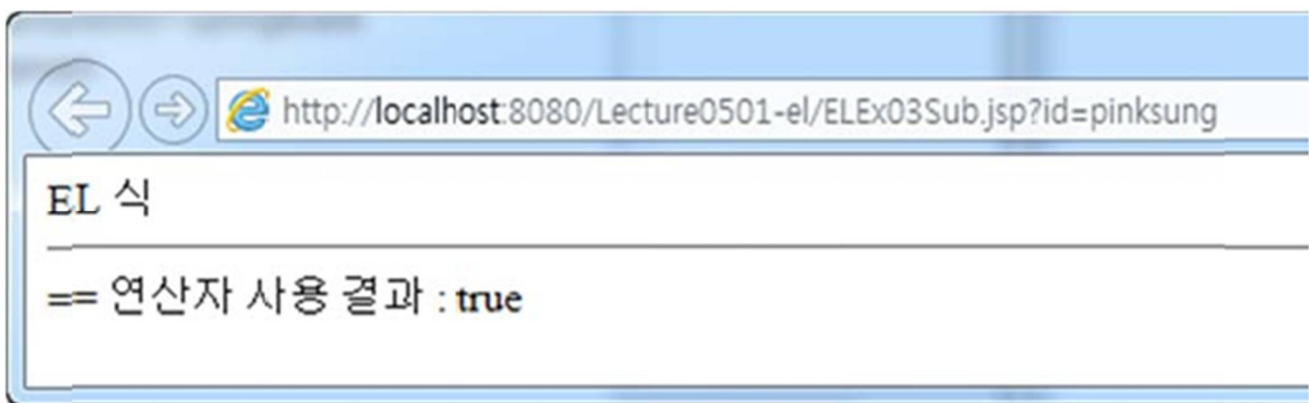
        return "el/el03";
    }
}
```

✓ views/el/el03.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Insert title here</title>
</head>
<body>
EL 식
<hr>

= 연산자 사용 결과 : ${param.id=="pinksung"}
<br>
</body>
</html>
```



5.4 <http://localhost/el/el04>

```
@Controller
public class JstlController {

    @RequestMapping(value = "/el/el04", method = RequestMethod.GET)
    public String jstl04(Model model) {
        logger.info("el04");

        return "el/el04";
    }
}
```

✓ views/el/el04.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8" %>

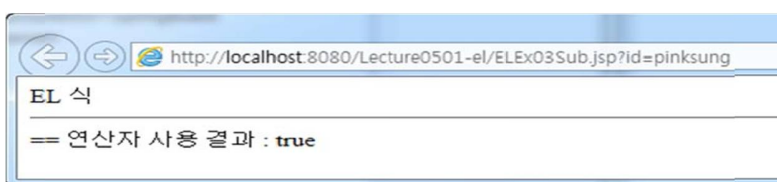
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>

<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Insert title here</title>
</head>
<body>
<form action="/el/el04sub" method="post" enctype="application/x-www-form-urlencoded">

    숫자 1 :
    <br> 숫자 2 :
    <br>

    <input type="text" name="num1">
    <input type="text" name="num2">

    <input type="submit" value="전송">
</form>
</body>
</html>
```



<http://localhost/el/el04sub>

```
@Controller
public class JstlController {

    @RequestMapping(value = "/el/el04sub", method = RequestMethod.POST)
    public String jstl04sub(Model model) {
        logger.info("el04sub");

        return "el/el04sub";
    }
}
```

✓ views/el/el04sub.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>

<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Insert title here</title>
</head>
<body>
<form action="ELEx04Sub.jsp" method="post" enctype="application/x-www-form-urlencoded">
숫자 1 : <input type="text" name="num1">
<br>
숫자 2 : <input type="text" name="num2">
<br>

<input type="submit" value="전송">
</form>
</body>
</html>
```

```

<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>

<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Insert title here</title>
</head>
<body>
<%--스크립트릿에서의 복잡한 자바 코드 --%> 표현식 방식 :
<%
String str1 = request.getParameter("num1"); String str2 = request.getParameter("num2");
int num1 = Integer.parseInt(str1);
int num2 = Integer.parseInt(str2);
%>
<%= num1%> + <%= num2%> = <%= num1 + num2%>
<hr>

<%-- 보다 깔끔하고 간단한 코드 --%>

```