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"} \langle br \rangle
<%="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 />
```

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```
\${5+2} : ${5+2} \dots
\${5/2} : ${5/2} \dots
\${5 mod 2} : ${5 mod 2} \dots
\${5 > 2} : ${5 > 2} \dots
\${2 gt 10} : ${2 gt 10} \dots
\${(5 > 2) ? 5 : 2} : ${(5 > 2) ? 5 : 2} \dots
\${(5 > 2) !! (2 < 10)} : ${(5 > 2) !! (2 < 10)} \dots
\$
\$tring input=null;
\$\dots
\${empty input} : ${empty input} \dots
\$/body\
</hd>
```

Hello Hello

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

null:

\${5+2}: 7 \${5/2}: 2.5 \${5 mod 2}: 1 \${5 > 2}: true \${2 gt 10}: false \${(5 > 2) ? 5: 2}: 5 \${(5 > 2) || (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

```
$\text{\parage page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"\text{\parage}$
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</pre>
"http://www.w3.org/TR/html4/loose.dtd">
<html>
\head>
\langle meta http-equiv="Content-Type" content="text/html; charset=UTF-8"\rangle
⟨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")
〈label for="userpwd"〉암   호 : 〈/label〉
<input type ="password" name="pwd" id="userpwd"><br>
(input type="submit" value="로그인")
</form>
</body>
</html>
```

http://localhost/el/el02sub

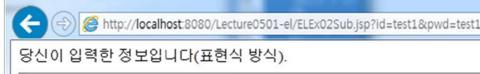
```
@Controller
public class JstlController {
    @RequestMapping(value = "/el/el02sub", method = RequestMethod.POST)
    public String jstl02sub(Model model) {
        logger.info("el02sub");
        return "el/el02sub";
    }
```

views/el/el02sub.jsp

비밀번호: \${param["pwd"]}

</body> </html>

```
$\language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"\range*
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</pre>
"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>>
                                당신이 입력한 정보입니다(표현식 방식).
아이디 : ${param.id} 〈br〉
```



아이디: test1 비밀번호: test1

당신이 입력한 정보입니다(EL 방식).

아이디 : test1 비밀번호: test1

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



EL 식

== 연산자 사용 결과 : true

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

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

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```
$\text{page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"}$\text{pageEncoding="UTF-8"}$
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</pre>
 "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);
%>
\langle = \text{num1} \rangle + \langle = \text{num2} \rangle = \langle = \text{num1} + \text{num2} \rangle
 \langle hr \rangle
〈%-- 보다 깔끔하고 간단한 코드 --%〉
```