

# 웹 서버 프로그래밍

## Assign #기말

(과제명 : 기말고사)

학번 : 2017305039

성명 : 신 동 민

제출일자 : 2022. 6. 14

본인은 타인이나 다른 매체를 도용하지 않았음을 확인합니다. <본인서명>

신동민

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ page import="java.util.*" %>
<%@ page import="beans.*" %>
<%@ 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>2017305039신동민</title>
</head>
<body>
    <%
        ArrayList<BookBean> bookList = new ArrayList<BookBean>();
        BookBean book1 = new BookBean();
        book1.setTitle("미드나잇 라이브러리");
        book1.setAuthor("매크 헤이그");
        book1.setPublisher("인플루엔셜");
        bookList.add(book1);
        BookBean book2 = new BookBean();
        book2.setTitle("자바 웹 프로그래밍");
        book2.setAuthor("황희정");
        book2.setPublisher("한빛 아카데미");
        bookList.add(book2);

        ArrayList<String> bookCode = new ArrayList<String>();
        bookCode.add("소설");
        bookCode.add("역사");
        bookCode.add("인문");
        bookCode.add("정치");
        bookCode.add("미술");
        bookCode.add("종교");
        bookCode.add("여행");
        bookCode.add("과학");
        bookCode.add("만화");
        bookCode.add("건강");

        ArrayList<String> Color = new ArrayList<String>();
        Color.add("Red");
        Color.add("Green");
        Color.add("Blue");
        Color.add("Black");

        application.setAttribute("bookList", bookList);
        application.setAttribute("bookCode", bookCode);
        application.setAttribute("Color", Color);
    %>

```

```

<c:forEach var="i" items="${bookList}">
    <c:out value="${i.title}" /> /
    <c:out value="${i.author}" /> /
    <c:out value="${i.publisher}" /> <BR>
</c:forEach>
<HR>

<c:forEach var="i" items="${bookCode}">
    <c:out value="${i}" />
</c:forEach>
<HR>

<H2>JSTL를 이용한 출력</H2>
<c:forEach var="i" items="${Color}">
    <font color="${i}">${i}</font>
</c:forEach>

<H2>varStatus 속성 살펴보기</H2>
<table border="1">
    <c:forEach var="i" begin="3" varStatus="status" end="5">
        <tr>
            <td>count: ${status.count}</td>
            <td>index: ${status.index}</td>
        </tr>
    </c:forEach>
</table>

<H2>1에서 100까지 정수 중 홀수의 합(Step 사용 금지)</H2>
<c:set var="sum" value="0" />
<c:forEach var="i" begin="1" end="100">
    <c:if test="${i%2 == 1}" var="result">
        <c:set var="sum" value="${sum + i}" />
    </c:if>
</c:forEach>
1~100 사이의 정수 중 홀수의 합은? ${sum}<BR><BR>

<c:forTokens items="소설/역사/인문/정치/미술/종교/여행/과학/만화/건강" delims="/"
var="sel">
    <c:out value="${sel}" />
</c:forTokens>
</body>
</html>

```

```
package beans;

/**
 * @author 신동민(2017305039)
 *
 */
public class BookBean {
    public String title;
    public String author;
    public String publisher;

    public String getTitle() {
        return title;
    }
    public void setTitle(String title) {
        this.title = title;
    }
    public String getAuthor() {
        return author;
    }
    public void setAuthor(String author) {
        this.author = author;
    }
    public String getPublisher() {
        return publisher;
    }
    public void setPublisher(String publisher) {
        this.publisher = publisher;
    }
}
```

그림 ① <Assign.JSP>

Project Explorer

Assign2017305039

contact-ShinDongMin

Final\_2017305039

Deployment Descriptor: Final\_2017305039

JAX-WS Web Services

JRE System Library [JavaSE-15]

src/main/java

beans

BookBean.java

Apache Tomcat v8.5 [Apache Tomcat v8.5]

Web App Libraries

build

src

main

java

webapp

final

test1\_2017305039.jsp

META-INF

WEB-INF

jspbook

midtest-ShinDongMin

NewProject

Servers

test1\_2017305039.jsp

BookBean.java

```
1 package beans;
2
3 /**
4  * @author 신동민(2017305039)
5  *
6  */
7 public class BookBean {
8     public String title;
9     public String author;
10    public String publisher;
11
12    public String getTitle() {
13        return title;
14    }
15    public void setTitle(String title) {
16        this.title = title;
17    }
18    public String getAuthor() {
19        return author;
20    }
21    public void setAuthor(String author) {
22        this.author = author;
23    }
24    public String getPublisher() {
25        return publisher;
26    }
27    public void setPublisher(String publisher) {
28        this.publisher = publisher;
29    }
30
31 }
32
```

Project Explorer

Assign2017305039

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Final\_2017305039

Deployment Descriptor: Final\_2017305039

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BookBean.java

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7 <html>
8 <head>
9 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
10 <title>2017305039신동민</title>
11 </head>
12 <body>
13 <%
14     ArrayList<BookBean> bookList = new ArrayList<BookBean>();
15     BookBean book1 = new BookBean();
16     book1.setTitle("마드나잇 라이브러리");
17     book1.setAuthor("마크 헤이그");
18     book1.setPublisher("인물루연설");
19     bookList.add(book1);
20     BookBean book2 = new BookBean();
21     book2.setTitle("차라 필 프로그래밍");
22     book2.setAuthor("황희정");
23     book2.setPublisher("뽕뽕 아카데미");
24     bookList.add(book2);
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26     ArrayList<String> bookCode = new ArrayList<String>();
27     bookCode.add("소설");
28     bookCode.add("역사");
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30     bookCode.add("정치");
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32     bookCode.add("종교");
33     bookCode.add("여행");
34     bookCode.add("과학");
35     bookCode.add("만화");
36     bookCode.add("건강");
37
```

```
37
38 ArrayList<String> Color = new ArrayList<String>();
39 Color.add("Red");
40 Color.add("Green");
41 Color.add("Blue");
42 Color.add("Black");
43
44 application.setAttribute("bookList", bookList);
45 application.setAttribute("bookCode", bookCode);
46 application.setAttribute("Color", Color);
47 %>
48
49 <c:forEach var="i" items="{bookList}">
50   <c:out value="{i.title}" /> /
51   <c:out value="{i.author}" /> /
52   <c:out value="{i.publisher}" /> <BR>
53 </c:forEach>
54 <HR>
55
56 <c:forEach var="i" items="{bookCode}">
57   <c:out value="{i}" />
58 </c:forEach>
59 <HR>
60
61 <H2>JSTL을 이용한 출력</H2>
62 <c:forEach var="i" items="{Color}">
63   <font color="{i}">{i}</font>
64 </c:forEach>
65
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68   <c:forEach var="i" begin="3" varStatus="status" end="5">
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70       <td>count: ${status.count}</td>
71       <td>index: ${status.index}</td>
72     </tr>
73   </c:forEach>
74 </table>
75
76 <H2>1에서 100까지 정수 중 홀수의 합(Step 사용 금지)</H2>
77 <c:set var="sum" value="0" />
78 <c:forEach var="i" begin="1" end="100">
79   <c:if test="{i%2 == 1}" var="result">
80     <c:set var="sum" value="{sum + i}" />
81   </c:if>
82 </c:forEach>
83 1~100 사이의 정수 중 홀수의 합은? ${sum}<BR><BR>
84
85
86 <c:forEach items="소설/역사/인문/정치/미학/종교/여행/과학/만화/건강" delims="/" var="sel">
87   <c:out value="{sel}" />
88 </c:forEach>
89 </body>
90 </html>
```

그림 ② <Eclipse Capture>



그림 ③ <Browser Capture>