



Name of the Subject: ADVANCE JAVA TECHNOLOGY Subject Code: IT-619

Seat No: IT076 Student ID: 18ITUBN116 Branch/Sem: IT - VI

Q3

(a).

① Count.tld

```
<?xml version="1.0" encoding="UTF-8"?>
<taglib version="2.1"
  xmlns="http://java.sun.com/xml/ns/jsp"
  xmlns:xsi="http://www.w3.org/2001
  xsi:schemaLocation=" "
```

```
<lib-version>1.0</lib-version>
<short-name>Count</short-name>
<uri>/WEB-INF/Count</uri>
<tag>
  <name>Count</name>
  <tag-class>BodyTagCount</tag-class>
  <body-content>JSP</body-content>
</tag>
</taglib>
```

② Count.jsp

```
<%@taglib uri="/WEB-INF/tlds/Count.tld" prefix="C"%>
<!DOCTYPE html>
```

```
<html>
  <body>
    <C:Count> The Body Tag </C:Count>
  </body>
</html>
```



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③ Count.java.

```
import java.io.*;
```

```
package BodyTag;
```

```
public class Count extends BodyTagSupport
```

```
{
```

```
    super();
```

```
}
```

```
@Override
```

```
public int doAfterBody() throws JSPException
```

```
{
```

```
    int words, count=0;
```

```
    String filterBody = body.getString();
```

```
    if (filterBody == null || filterBody.isEmpty())
```

```
    {
```

```
        words=0;
```

```
    }
```

```
    for (int i=0; i<filterBody.length(); i++)
```

```
    {
```

```
        count++;
```

```
    }
```

```
    String[] words1 = filterBody.split(" ");
```

```
    words = words1.length;
```

```
    try {
```

```
        JSPWriter out = body.getEnclosingWriter();
```

```
        out.print("#characters" + count + "#words" +
```

```
            words);
```



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```
    }  
    catch (IOException ioe)  
    {  
        System.out.println("Error in File Tag" + ioe);  
    }  
    return SKIP-BODY;  
}  
}
```

Q3 (b) Basic Form-based.

- | | |
|---|--|
| ① Get Username & password by using browser provided dialog box | ① Get username & password by using a Customized login page |
| ② Only Username & password can be collected. | ② Customized data can be collected. |
| ③ HTTP Authentication header is used to convey Username & password. | ③ Form data is used to convey Username & password. |

⇒ Configuration file

```
<web-app>  
  <security-constraint>  
    <web-resource-collected>  
      <web-resource-name> User </web-resource-name>  
      <url-pattern> /auth/* </url-pattern>  
    </web-resource-collected>  
    <auth-constraint>  
      <role-name> admin </role-name>  
      <role-name-manage> </role-name-manage>  
    </auth-constraint>  
  </security-constraint>  
</web-app>
```



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```
</auth-Constraint>
</Security-Constraint>
<login-Config>
  <auth-method>Basic</auth-method>
  <realm-name>User Auth</realm-name>
</login-Config>
<Security-role>
  <role-name>admin</role-name>
</Security-role>
  <role-name>manager</role-name>
</Security-role>
</web-app>
```



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Q2

(b)

```
<jsp:directive page Content Type="text/html"/>
```

```
<html>
```

```
<body>
```

```
<p> Prime no: </p>
```

```
<C:set var="Upper limit" value="$ {203}"/>
```

```
<del><C:set
```

```
<del><C:forEach var="j" begin="1" end="$ {23}
```

```
<C:forEach var="j" begin="1" end="$ {upper limit}>
```

```
<C:set var="is Prime" value="$ {isPrime}"/>
```

```
<C:forEach var="j" begin="1" end="$ {23}" end="$ {i-13}">
```

```
<C:if test="$ {j%2}==0">
```

```
<C:set var="is Prime" value="$ {false}"/>
```

```
</C:if>
```

```
</C:forEach>
```

```
<C:choose>
```

```
<C:when test="$ {isPrime}">
```

```
<C:out value="$ {i} is a Prime no."/> <br/>
```

```
</C:when>
```

```
<C:otherwise>
```

```
<C:out value="$ {i} is not Prime."/>
```

```
</otherwise>
```

```
</C:choose>
```

```
</C:forEach>
```

```
</body>
```

```
</html>
```

```
</jsp:root>
```



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Q2 (C)

① ~~separate.html~~

① Math_Hd

```
<lib-version>1.0 </lib-version>
<short-name>math </short-name>
<uri>/WEB-INF/Hdb/math</uri>
<tag>
  <name>separate </name>
  <tag-class>math.&cube </tag-class>

  <attribute>
    <name>no </name>
    <required>True </required>
    <repeatvalue>true </repeatvalue>
  </attribute>
  <attribute>
    <name>repeat </name>
    <required>true </required>
  </attribute>
</tag>
</taglib>
```

② cube.jsp.

```
<%@ taglib uri = "WEB-INF/Hdb/math.Hdb" prefix = "math" %>
<%@ taglib uri = "http://..." %>
<!DOCTYPE html>
<html>
  <head>
    <title> </title>
  </head>
```




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<body>.

<% if (request.getMethod().equals("POST"))
<%>.

%>

< c: set var = "no".value = "\${param.no}" />.

<math: cube. no = "\${no}" repeat = "3" />.

<%>

else

{ %>.

< form action = "cube.jsp" method = "post" >

< div > Value: < /div>

< input type = "number" name = "number 1" />

< input type = "Submit" Value = "Find Cube" />.

< /form>.

<% ? %>

< /body>

< /html>.

(3) Cube.java.

public class Cube extends TagSupport
{

private long number;
private int repeats;

public void set number (int number)
{

this.number = number;

}



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```
public void setRepeat (int repeat)
```

```
{
```

```
    this.repeat = repeat;
```

```
}
```

```
public int doEndTag () throws JspException
```

```
{
```

```
    JspWriter out = pageContext.getOut();
```

```
    try
```

```
{
```

```
        long ans;
```

```
        while (repeat != 0)
```

```
{
```

```
            ans = number * number * number;
```

```
            number = ans;
```

```
            out.print (ans + " ");
```

```
            repeat--;
```

```
}
```

```
} catch (Exception e) {
```

```
    e.printStackTrace();
```

```
}
```

```
return EVAL_PAGE;
```

```
}
```

```
}
```