JSP Custom Tags Quiz 5/7/2019

1. Rewrite the JSP page in the first demo (forEach) to use scripting instead of the JSTL forEach.

```
<%@page import="net.mumde.cs545.Student"%>
<%@page import="java.util.ArrayList"%>
<%@page import="java.util.List"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%>
<%@ 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>
<table>
<head>
<meta http-equiv="Content-Type" content="text/html;
charset=ISO-8859-1">
<title>Lecture 5</title>
</head>
<body>
<table>
 <tr>
<% Student[] table = new Student[]
{
        new Student("bob", 23),
        new Student("jill", 33),
        new Student("kim", 18)
};
for(Student s: table) { %>
        <td> <%=s.getName() %></td>
        <td> <%=s.getAge() %></td> <% } %>
</tr>
</table>
</body>
</html>
```

2. How do custom tags relate to JSTL?

Custom tags use prefix for access to tags the same way as we use prefix in JSTL for get access to tags from different libraries. Developers creates custom tags for their perpocese but in JSTL developers use common tags from libraties.

3. What is the role of the URI in the TLD and the taglib directive?

URI is the path to the tld file.

4. What is a tag handler class?

Tag handler class is SimpleTagSupport. When certain class was extended from SimpleTagSupport it has to implement method doTag where would be the code which build stricture of tags for new custom tag. This is behavior of custom tag in doTag() method.

5. What is the role of attribute setters in a tag handler class?

Attribute used for setting default attributes of styles for example of tags that we use when implement the code for custom tags.

6. What is the role of the doTag() method in a tag handler class?

The doTag() method set the behaver for new tags and form the tag string with one of default HTML tags.

7. What does the operation getJspContext().getOut().write("Hi Bob") do when called in a doTag() method?

This method write("Hi Bob") of output stream print "Hi Bob" in the web page in the place where was used custom tag.

8. What does the operation getJspBody().invoke(null) do when called in a doTag() method?

 When we call getJspBody().invoke(null), it is the output resulting from the execution of the tag body's JSP content that gets passed to the client, not the JSP code itself.