

- ① a) `<jsp:include page="my.jsp">`
- b) `<%@page contentType="text/html"%>`
- c) `<%= request.getParameter("joe"); %>`

② The **JSTL** expression language is similar to javascript. It serves as the values of attributes for tags from the tag library.

```
<%@page contentType="text/html"%>
```

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

```
<html xmlns="http://www.w3.org/1999/xhtml"
```

```
xml:lang="en" lang="en">
```

```
<head><title>test</title></head>
```

```
<body>
```

```
<p>bob = <c:out value = { param.bob } />
```

```
</p>
```

```
</body>
```

```
</html>
```

→ This is using the JSTL expression language.

3. <html>

```
<head><title>myPage</title></head>
```

```
<body>
```

```
<?php for ($a=0; $a < 1000; $a++) { ?>
```

```
<p>hello</p>
```

```
<?php } ?>
```

```
</body>
```

```
</html>
```

4. <html>

```
<head><title>myPage</title></head>
```

```
<?php
```

```
asort($_REQUEST);
```

```
foreach ($_REQUEST as $key => $val) {
```

```
    echo "<p>$key = $val</p>";
```

```
}
```

```
?>
```

```
</body>
```

```
</html>
```

#5

In a page shopping.html you would have some php to start a session and then add items to the session array as you added them to the cart.

```
<?php
    start_session();
    $_SESSION[$_num_of_items] = $item;
?>
```

Then in another page cart.html you would read out each item in the session array.

```
<?php
    foreach ($_SESSION as $current_item => $item)
        print("Item: $item <br />");
?>
```

6) THE BREADCRUMB PATTERN IS A WEB DESIGN PATTERN THAT ALLOWS A USER TO KNOW WHERE HE IS WITHIN THE WEBSITE, ~~RE~~ RELATIVE TO THE ROOT PAGE. THIS WILL ALLOW THE USER TO REVISIT PREVIOUS PAGES EASILY WITHOUT HAVING TO REPEATEDLY HIT THE "BACK" BUTTON ON THE BROWSER.

AS AN EXAMPLE: YOU COULD CREATE THE LINKS HOME > LEVEL 1 > LEVEL 2 > CURRENT PAGE

7

(loosely) 5 #

```
<?xml version="1.0" encoding="utf-8"?>  
!DOCTYPE ... (xhtml 1.1) >
```

```
<head><title>mySite</title>  
</head>  
<body><p>
```

```
<?php
```

```
REMOTE_ADDR  
$ip = $ENV["REMOTE_ADDR"];
```

```
if (!file_exists("visited.dat"))
```

```
$f $f = fopen("visited.dat", "w");  
flock($f, 2);
```

```
else
```

```
{
```

```
flock($f, 2);
```

```
$f = fopen("visited.dat", "r");  
flock($f, 2);
```

```
$i = 0;
```

#7 (Continued)

```
while ($line = fgets($f, 100))  
{
```

```
    i++;  
    $line = chop($line);
```

```
    $arr = explode(" ", $line);
```

```
    if (strcmp($arr[0], $ip))
```

```
    { //visited before
```

```
        $arr[i]++;
```

```
    } echo "You have visited this site $arr[i] times!"
```

```
    $line = implode(" ", $arr);
```

```
    $line .= "\n";
```

```
    $all_lines[i] = $line;
```

```
    }  
}  
fclose($file_var);
```

```
if $f = fopen("visited.dat", "w") or
```

```
die die "Error - can't open  
file for writing";
```

#7

```
$bytes_writ = fwrite($f, implode($all_lines));
```

```
fclose($f);
```

```
flock($f);
```

```
flock($f, 3);
```

```
?>
```

```
</p>
```

```
</body>
```

```
</html>
```

Table → Counter
Col. names →

addr	count

Prob - 8

```

<html>
<head> <title> Counter </title>
</head>
<body>
<?
    $db = mysql_connect ();
    $er = mysql_select_db ("test");

    $ipAddr = $_SERVER ['REMOTE_ADDR'];
    $flag = FALSE;
    $query = "SELECT * FROM counter";
    $result = mysql_query ($query);
    $num_rows = mysql_num_rows ($result);
    for ($j = 0; $j < $num_rows; $j++)
    {
        $data = mysql_fetch_array ($result);
        if ($ipAddr == $data ["addr"])
        {
            $flag = TRUE;
            $ctr = $data ["count"];
            $ctr++;

            $q = "UPDATE counter SET count = $ctr
                WHERE addr = '$ipAddr'";
            $res = mysql_query ($q);
        }
    }
    if ($flag == FALSE)
    {
        $q1 = "INSERT INTO counter VALUES ('$ipAddr', 1)";
        $res1 = mysql_query ($q1);
    }
?>

```


4) `visit.jsp` Friday 11:00 AM

```
<?xml version="1.0" encoding="utf-8"?>  
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd" >  
<%@ page="text/html"%>  
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>  
<html xmlns="http://www.w3.org/1999/xhtml" >  
<head><title>Counter.jsp</title></head>  
<%@
```

```
Cookie[] c1 = request.getCookies();  
Cookie c;  
for(int i=0; i<c1.length; i++){  
    if(c1[i].getName().equals("username")){  
        c = c1[i]; break;  
    }  
}  
try {
```

```
Class.forName("org.apache.derby.jdbc.Driver");  
Connection con = DriverManager.getConnection("jdbc:derby://localhost:1527/test");  
Statement st = con.createStatement();  
String select = "select visit from user where username = " +  
    c.getValue();  
ResultSet rs = st.executeQuery(select);  
int count = rs.getInt(1);  
count++;  
select = "update user set visit = count where username = " +  
    c.getValue();  
st.executeUpdate(select);  
con.close();  
} catch (Exception E) {  
    E.printStackTrace();  
}
```

```
}  
<%>
```

```

#!/usr/bin/perl
use CGI ":standard";
use DBI;
print header;
print start_html;
$who = $ENV{'REMOTE_ADDR'};
$dbh = DBI->connect("DBI:mysql:test") || die;
$stmt = $dbh->prepare("select num from visits where ip=$who");
$stmt->execute || die;
@result = $stmt->fetchrow_array;
$vis = shift @result;
if (!$vis) { $notInDB = true; $vis = 0; }
$stmt->finish;
$vis++;
print "<p>Visited $vis times from $who </p>";
if (!$notInDB) {
    $stmt = $dbh->prepare("update visits set num=$vis
                           where ip=$who");
} else {
    $stmt = $dbh->prepare("insert into visits values ($ip, $vis)");
}
$stmt->execute || die;
$stmt->finish;
$dbh->disconnect();
print end_html;

```