



TP2

Today is the: Sat Mar 30 17:08:00 WET 2024

```
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Date Page </title>
  </head>
  <body>
    <%
      // instanciate the date variable
      Date date = new Date();

      // display the date method
      out.print(date);
    %>
  </body>
</html>
```

or use `<%= date %>`

Number	1
Number	2
Number	3
Number	4

```

<table border="2">
  <%
    int n = 5;
    // loop through the nbrs
    for (int i = 1; i < n; i++) {
  %>
  <tr>
    <td>
      Number
    </td>
    <td>
      <%= i %>
    </td>
  </tr>
  <%} %>
</table>

```

- But how about if we want to take the user input and based on that input we'll display that nbre in the page?

```

<%
  // int n = 5;
  String n = request.getParameter("number");

  // dont forget we need to parse because the getParam returns a string
  int number = Integer.parseInt(n);
  // loop through the nbrs
  for (int i = 1; i <= number; i++) {
  %>
  <tr>

```

- Of course add an input in the `index.html` file with a submit button inside a form

```

<!DOCTYPE html>
<html>
<head>
  <title>Index Page</title>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
  <form action="/PROJET1_JSP-war/displaynbr.jsp" method="post">
    <div class="p-3">
      <label for="number" class="form-label">Number</label>
      <input type="number" id="number" name="number" class="form-control">

```

```
        <input type="submit" value="Submit">
    </div>
</form>
</body>
</html>
```

Q2.3.

Générer une page selon la valeur d'une variable booléenne. Pour cela, il faut d'abord écrire un scriptlet qui initialise une variable booléenne 'stater', Puis on génère une page HTML qui affiche 'bienvenue' si 'stater' est vraie et 'au revoir' dans le cas contraire.

```
<body>
  <div p=3>
    <%
      // set the status with true at first (so it'll display Hello
      boolean status = true;
    %>
    <h3 class="text-center"> Hello vs GoodBye </h3>

    <% if (status) { %>
      <h1>Hello Friend </h1>
    <% } else { %>
      <h1>GoodBye Friend</h1>
    <% }%>
  </div>
</body>
```

set the var to false to display Goodbye!

Atelier N° 3 :

1. Écrire un programme qui écrit 10 fois "Je dois faire des sauvegardes régulières de mes fichiers".

Je dois faire des sauvegardes régulières de mes fichiers

Je dois faire des sauvegardes régulières de mes fichiers

Je dois faire des sauvegardes régulières de mes fichiers

Je dois faire des sauvegardes régulières de mes fichiers

Je dois faire des sauvegardes régulières de mes fichiers

Je dois faire des sauvegardes régulières de mes fichiers

Je dois faire des sauvegardes régulières de mes fichiers

Je dois faire des sauvegardes régulières de mes fichiers

Je dois faire des sauvegardes régulières de mes fichiers

Je dois faire des sauvegardes régulières de mes fichiers

```
<body>
  <%
    int times = 10;

    for (int i = 1; i <= times; i++) {
  %>
  <h2>Je dois faire des sauvegardes régulières de mes
    fichiers</h2>
  <%
    }
  %>
</body>
```

just open close scriptlet tag!

2. Écrire un programme JSP qui affiche tous les nombres impairs entre 0 et 30, par ordre croissant : «1 3 5 7 ... 29».

```

<!-- now question 2 display odd number between 0 and 30 -->

<%
    int nbr = 100;
    for (int i = 0; i <= nbr; i++) {
        if (i >= 0 && i <= 30 && i % 2 == 1) {
            <h2><%= i%></h2>
            <%
                }
            }
        }
    }
%>

```

just don't forget when displaying a variable inside scripttag with `<%= var %>`

Je dois faire des sauvegardes régulières de mes fichiers

1
3
5
7
9
11
13
15
17
19
21
23
25
27
29

Write a program that calculates n!

```

<% // Write a program that calculates n!
//instanciate a var with a value

int var = 23;
long res = 1;

for ( int i = 1; i<= var; i++){
    res *= i;
}
%>
<%= res %>

```

gave it a value of 23, after calculating we displayed the value!

21

29

8128291617894825984

Atelier N° 4 :

Ecrire une page jsp nommé 'Multiplication.jsp' qui affiche la table de multiplication d'un nombre entier passé en paramètre. cette page inclut deux fichiers 'Entete.html' et 'Pied.jsp'.

1- Fist thing I want to render the input of the user in the same component

`multiplication.jsp`

23

client input 23 we displayed it in an h3 tag

```

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>

```

```

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Multiplication Page</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js" rel="script">
</head>
<body>
    <div class="container pt-5">
        <form class="row g-3" method="post" action="multiplication.jsp">
            <div class="col-auto">
                <input type="number" class="form-control" id="inputUser">
            </div>
            <div class="col-auto">
                <button type="submit" class="btn btn-primary">Calculate</button>
            </div>
        </form>

        <!-- Retrieve the input by the user -->
        <div class="row mt-3">
            <div class="col">
                <% if (request.getMethod().equals("POST")) {
                    String input = request.getParameter("inputUser");
                    int inputUser = Integer.parseInt(input);
                    %>
                    <h3><%= inputUser %></h3>
                <% } %>
            </div>
        </div>
    </div>
</body>
</html>

```

- Now let's create a `header.html` and add it in our `multiplication.jsp` page
 - Create the page and put something in it and then import it in `multiplication.jsp` with the following: `<%@ include file="header.html" %>`

Featured

Multiplication Table with JEE

I will display multiplication table for a given number that I take in the input above ðŸŒˆðŸŒˆðŸŒˆðŸŒˆ

Go somewhere

Saturday, March 30 2024

- Same let's add a footer as well, where we will display the date in a styled way (from the previous questions), create `footer.html`

Featured

Multiplication Table with JEE

I will display multiplication table for a given number that I take in the input above ðŸŒˆðŸŒˆðŸŒˆðŸŒˆ

Go somewhere

Saturday, March 30 2024

Footer

Displaying the Date:

Today's Date: 31 March, 2024

added the footer as well

- Now we will have to display the table of multiplication given by the user in a table

Featured

Multiplication Table with JEE

I will display multiplication table for a given number that I take in the input above ☺☺☺

Go somewhere

Saturday, March 30 2024

1	9	9
2	9	18
3	9	27
4	9	36
5	9	45
6	9	54
7	9	63
8	9	72
9	9	81
10	9	90

Footer

Displaying the Date:
 Today's Date: 31 March, 2024

Final output I enter a number and get the result in a table!

Code

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; c
    <title>Multiplication Page</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5
  </head>
  <body>

    <!--      include the header here-->
    <%@ include file="header.html" %>
```

```

<div class="container pt-5">
    <form class="row g-3" method="post" action="multi
        <div class="col-auto">
            <input type="number" class="form-control"
        </div>
        <div class="col-auto">
            <button type="submit" class="btn btn-prim
        </div>
    </form>

    <!-- Retrieve the input by the user -->
    <div class="row mt-3">
        <div class="col">
            <% if (request.getMethod().equals("POST"))
                String input = request.getParameter
                int inputUser = Integer.parseInt(

                // Start looping from 1 to 10 wit
            %>
            <table class="table table-bordered">
                <tbody>
                    <% for (int i = 1; i <= 10; i++)
                    <tr>
                        <td> <%= i%> </td>
                        <td> <%= inputUser%> </td>
                        <td> <%= i * inputUser%> </td>
                    </tr>
                    <% } %>
                </tbody>
            </table>
            <% }%>
        </div>
    </div>
</div>

<!--      we will include the footer-->

```

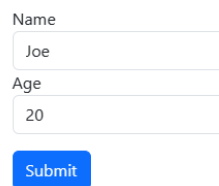
```
<%@include file="footer.html" %>

</body>
</html>
```

Atelier N° 5 :

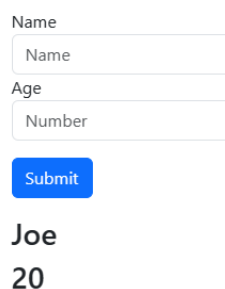
Écrire un formulaire qui demande le nom et l'âge de l'utilisateur. Le bouton submit de ce formulaire provoquera l'affichage d'une page qui saluera l'utilisateur avec cette phrase :
«Bonjour xxxxx, vous avez xx ans...» (avec les bonnes valeurs, bien entendu):

- For that we will create a jsp file name it `greet.jsp`



A screenshot of a web form. It has two input fields: 'Name' with the value 'Joe' and 'Age' with the value '20'. Below the fields is a blue 'Submit' button.

- Now let's work on getting the input from the user and then displaying it in the same page



A screenshot of a web form. It has two input fields: 'Name' with the value 'Name' and 'Age' with the value 'Number'. Below the fields is a blue 'Submit' button. Below the button, the text 'Joe' and '20' is displayed, corresponding to the input values.

you can add later some styling if you want...

Écrire un formulaire qui demande le nom et le sexe de l'utilisateur (M ou Mme).
Ce formulaire appelle une page qui affichera «Bonjour monsieur Truc» ou «Bonjour madame Bidule» suivant le cas (avec le vrai nom de la personne, bien entendu!):

- Basically it's a an improvement on the last exercise, so we'll use the same exercise this time we'll add a checkbox.

Name

Age

Male ☐ Female ☐

Joe
20
male

Now I'm fetching also the sex 😊

Code:

```
<%- -
    Document      : greet
    Created on    : Mar 31, 2024, 1:27:46 AM
    Author       : youse
- -%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; c
        <title>Gree the User</title>
        <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.
        <script src="https://cdn.jsdelivr.net/npm/bootstrap@5
```

```

</head>
<body>
    <div class="container pt-5">
        <form class="row g-3" method="post" action="greet"
            <div class="col-auto">
                <!--take the user name-->
                <label> Name </label>
                <input type="text" class="form-control"
                <label> Age </label>
                <!--take the user age-->
                <input type="number" class="form-control"

                <!--take the user sex-->
                <label for="male">Male</label>
                <input type="radio" id="male" name="sex"

                <label for="female">Female</label>
                <input type="radio" id="female" name="sex"
                <!--Submit button -->

            </div>
            <button type="submit" class="btn btn-primary"
        </form>

        <!-- we will be working on getting the input of t

        <div class="col">
            <% if (request.getMethod().equals("POST")) {

                String name = request.getParameter("n

                String age = request.getParameter("ag
                // parsing
                int userAge = Integer.parseInt(age);

                // get the sex of the user
                String sex = request.getParameter("se

```

```

        %>

        <h3> <%= name%> </h3>
        <h3> <%= userAge%> </h3>
        <h3> <%= sex%> </h3>

        <% }%>
    </div>
</body>
</html>

```

Écrire un formulaire qui demande deux nombres : une base et une limite. Ce formulaire appelle une page qui affichera toutes les puissances de la base inférieures à la limite.

Par exemple si on donne 2 comme base et 300 comme limite on devra obtenir la suite «2, 4, 8, 16, 32, 64, 128, 256»

- Let's create for that a page let's call it uhmmm `base_limite.jsp` hehe boyaaa

Give me the Base

Give me the limit

Submit

20 200

we did create the page layout and fetched the user input

- Now let's try to implement the logic

Give me the Base Give me the limit

1.0
2.0
4.0
8.0
16.0
32.0
64.0
128.0
256.0



Code:

```
<!--
    Document    : base_limite
    Created on  : Mar 31, 2024, 1:58:21 AM
    Author      : youse
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="java.lang.Math" %>
<!DOCTYPE html>
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"%>
    <title> Base Limit Page </title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.min.js" rel="script">
</head>
<body>
<div class="pt-3">
    <form action="base_limite.jsp" method="POST">
        <label> Give me the Base </label>
        <input name="base" type="number" />

        <label> Give me the limit </label>
```

```

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

        <button type="submit" class="btn btn-primary">Submit
    </form>

    <!--we will implement the logic-->
    <%
        if (request.getMethod().equals("POST")) {
            // get the base
            String base = request.getParameter("base");
            // parse it to double as it can't be accepted in
            double baseUser = Double.parseDouble(base);
            // get the limit
            String limit = request.getParameter("limit");
            double limitParsed = Double.parseDouble(limit);
        %>
        <div class="col">
            <!-- fetched both base and limit -->
            <!-- we have the base -->
            <!-- loop the exponent until it reaches the limit -->

            <%
                // Start with the first power of the base
                double result = 1;

                // Loop through the powers of the base until it e
                while (result < limitParsed) {
            %>
                <h3><%= result %></h3>
            <%
                // Update the result to the next power of the
                result *= baseUser;
            }
            %>
        </div>
        <% } %>
    </div>

```



```
</body>
</html>
```

Écrire un formulaire «calculatrice» : 2 cases pour la saisie des opérandes, un groupe de 4 cases à cocher (ou une liste déroulante) pour le choix de l'opération, et affichage du résultat de l'opération

- For that let's create a page called `calculator.jsp` and implement the logic!

44.0 / 110.0 = 0.4

final product

Code:

```
<%- -
    Document      : calculator
    Created on    : Mar 31, 2024, 2:27:00 PM
    Author       : youse
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; c
        <title>Calculator Page</title>
        <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.
        <script src="https://cdn.jsdelivr.net/npm/bootstrap@5

    </head>
    <body>
        <div class="p-4">
```

```

<!-- Englobe everything in a form-->
<form action="calculator.jsp" method="POST">
    <!--taking the first number-->
    <input type="number" value="number1" name="num

    <!--taking the second number-->
    <input type="number" value="number2" name="num

    <!--the select menu select an operation-->
    <select name="operation">
        <option value="addition"> Addition </opti
        <option value="difference"> Difference </
        <option value="multiplication"> Multiplic
        <option value="division"> Division </opti
    </select>

    <!-- submit button -->
    <button type="submit" class="btn btn-primary":

    <!-- Start implementing the logic -->

<%

    if (request.getMethod().equals("POST")) {
        // fetch the first number
        String input1 = request.getParameter(
        double nbr1 = Double.parseDouble(inpu

        // fetch the second number
        String input2 = request.getParameter(
        double nbr2 = Double.parseDouble(inpu

        // fetch the operation
        String operation = request.getParamet

        double result = 0;

```

```

        if ( operation.equalsIgnoreCase("addi
            operation = "+";
            result = nbr1 + nbr2;
        }

        if ( operation.equalsIgnoreCase("dif
            operation = "-";
            result = nbr1 - nbr2;
        }
        if ( operation.equalsIgnoreCase("mul
            operation = "*";
            result = nbr1 * nbr2;
        }
        if ( operation.equalsIgnoreCase("div
            operation = "/";
            if ( nbr2 == 0 ){
                out.print("Can\'t divide by Z
            }
            else {
                result = nbr1 / nbr2;
            }
        }

    }

    // try to display for test %>
    <h2> <%= nbr1%> <%= operation %> <%=

        <%
            }

        %>

    </form>
</div>
</body>
</html>

```

Un permis de chasse à points remplace désormais le permis de chasse traditionnel.

Chaque chasseur possède au départ un capital de 100 points. S'il tue une poule il perd 1 point,

3 points pour un chien, 5 points pour une vache et 10 points s'il tue son meilleur ami.

Le permis coûte 200 Dhs.

Écrire un formulaire qui permet de saisir la liste des victimes du chasseur et calcule le prix à payer pour les permis supplémentaires nécessaires

- For that let's create a file call it `hunter.jsp` and start implementing the GUI

☒ Chicken ☐ Dog ☐ Cow ☐ Friend

- Now let's create a servlet that redirects us whenever we submit the form in `hunter.jsp`

Points: 81 Cost 200

☒ Chicken ☐ Dog ☐ Cow ☐ Friend

Code:

```
<%- -
    Document      : hunter
    Created on    : Mar 31, 2024, 3:24:16 PM
    Author       : youse
- -%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
```

```

<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; c
    <title>Hunter Page</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5
  </head>

  <%
    // Implement the logic and get the session variables

    if (session.getAttribute("points") == null) {

      session.setAttribute("points", 100);

    }

    if (session.getAttribute("cost") == null) {

      session.setAttribute("cost", 200);

    }

  %>

  <body>

    <div>
      <h2>
        <%      // Display the points
        out.println("Points: " + session.getAttribu
        %>

        <%      // Display the points
        out.println("Cost " + session.getAttribut

```

```

        %>

    </h2>
</div>

<div class="p-4">

    <form action="hunter" method="POST">
        <p>
            <input type="radio" name="victim" value="1"> 1
            <input type="radio" name="victim" value="2"> 2
            <input type="radio" name="victim" value="3"> 3
            <input type="radio" name="victim" value="4"> 4
        </p>
        <button type="submit" class="btn btn-primary"> Submit
    </form>
</div>
</body>
</html>

```

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**

```

```

*
* @author youse
*/
public class hunter extends HttpServlet {

    protected void processRequest(HttpServletRequest request,
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {

            // declare points, cost and point of hunt

            int points = Integer.parseInt( request.getSession()
            int cost = Integer.parseInt( request.getSession()
            int hunt_point = Integer.parseInt( request.getPar

            // calculate the point whenever a hunt is perform
            points = points - hunt_point;

            // if reached points 0, increase cost by 100 and

            if ( points < 0 ){

                points += 100;
                cost    += 200;

            }

            // send & update the variables in the session

            request.getSession().setAttribute("points", points
            request.getSession().setAttribute("cost", cost);

            // Forwarding Request to the jsp page (hunter.jsp)
            getServletContext().getRequestDispatcher("/hunter.

        }

```

```

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet
/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Handles the HTTP <code>POST</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Returns a short description of the servlet.
 *
 * @return a String containing servlet description
 */
@Override
public String getServletInfo() {

```



```
        return "Short description";  
    }// </editor-fold>  
  
}
```