



Advance Java

Assignment 4

[Introduction to JSP and Servlet]



Created By Ganesh Telore
Under Guidance of Miss. Shivani Deshpande

Assignment 4th

SET-A

Q1. Design a servlet that provides information about a HTTP request from a client, such as IP address and browser type. The servlet also provides information about the server on which the servlet is running, such as the operating system type, and the names of currently loaded servlets.

Q1.class

```
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;
import java.util.*;

public class Q1 extends HttpServlet {
    public void doGet(HttpServletRequest rq, HttpServletResponse rs) throws
        ServletException, IOException {
        rs.setContentType("text/html");
        PrintWriter pw = rs.getWriter();
        String info = rq.getHeader("User-Agent");

        pw.println("<html><body><center><b>IP: </b>" + rq.getRemoteAddr());
        pw.println("<br><b>Browser Type:</b>" + rq.getHeader("User-Agent"));

        if (info.toLowerCase().contains("windows")) {
            pw.println("<br><b>Operating System</b>: Windows");
        } else if (info.toLowerCase().contains("linux")) {
            pw.println("<br><b>Operating System</b>: Linux");
        } else if (info.toLowerCase().contains("mac")) {
            pw.println("<br><b>Operating System</b>: Mac");
        } else if (info.toLowerCase().contains("android")) {
            pw.println("<br><b>Operating System</b>: Android");
        } else {
            pw.println("<br><b>Operating System:</b> Unknown");
        }

        ServletContext sc = getServletContext();
        List<String> names = new ArrayList<>();
        for (ServletRegistration sr : sc.getServletRegistrations().values()) {
            names.add(sr.getName());
        }

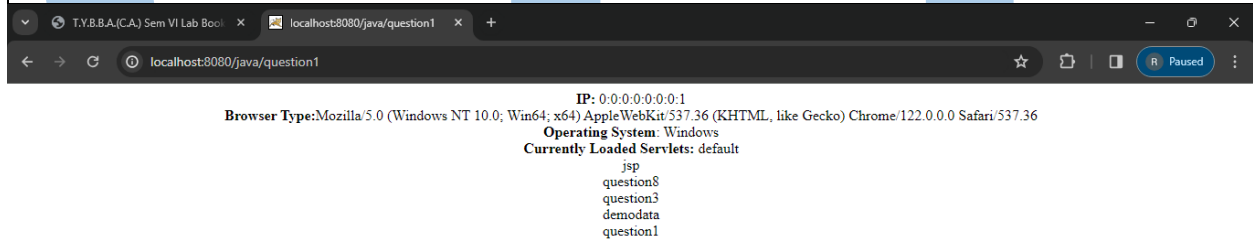
        pw.println("<br><b>Currently Loaded Servlets: </b>");
        for (String name : names) {
            pw.println(name + "<br>");
        }
    }
}
```

```
}  
  
    pw.close();  
}  
}
```

web.xml

```
<web-app>  
<servlet-name>question1</servlet-name>  
<servlet-class>Q1</servlet-class>  
</servlet>  
  
<servlet-mapping>  
<servlet-name>question1</servlet-name>  
<url-pattern>/question1</url-pattern>  
</servlet-mapping>  
  
</web-app>
```

Output:



Assignment 4th

SET-A

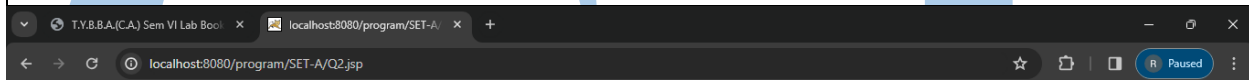
Q2. Write a Program to make use of following JSP implicit objects: i. out: To display current Date and Time. ii. request: To get header information. iii. response: To Add Cookie iv. config: get the parameters value defined in v. application: get the parameter value defined in vi. session: Display Current Session ID vii. pageContext: To set and get the attributes. viii. page: get the name of Generated Servlet

Q2.jsp:

```
<%@ page import="javax.servlet.ServletContext" %>
<html>
<body>
    <!--String param1;%>
    <h3>Current Date and Time:
    <% out.println(new java.util.Date()); %> </h3>
    <h3>Header Information: User Agent: <%out.print(request.getHeader("User-
Agent"));;%><br> Refferer: <%out.print(request.getHeader("Referer"));;%></h3>
    <h3>Added Cookie: <% Cookie ck=new Cookie("democookie","HelloGT");
    ck.setMaxAge(6004800);
    ck.setPath("/");
    response.addCookie(ck);
    Cookie[] ck2=request.getCookies();
    String myck=null;
    if(ck2!=null){
        for(Cookie c:ck2){
            if(c.getName().equals("democookie")){
                myck=c.getValue();
                break;
            }
        }
    }
    ServletContext context = application;
    %>
    <%=myck+" (Cookie value)"%></h3>
    <h3>Value of parameter defined in init-param: <%
    param1=getServletConfig().getInitParameter("myparam");
    if(param1==null){
        out.println("InitParam tag or its parameter is not defined");
    }
    else{
    out.println(getServletConfig().getInitParameter("myparam"));;%></h3>
```

```
<h3>Value of context parameter "myContextParam": <%  
if(context.getInitParameter("myContextParam")==null){  
    out.println("ContextParam tag or its parameter is not defined");  
}  
else{  
    out.println(context.getInitParameter("myContextParam"));  
}%></h3>  
<h3>Current Session ID: <% String sid=session.getId();  
out.println(sid);%></h3>  
<h3>Attributes of pageContext: <% pageContext.setAttribute("attr1","GT");  
Object attrval=pageContext.getAttribute("attr1");  
out.println(attrval);%></h3>  
<h3>Generated Servlet Name: <% String sname=getServletConfig().getServletName();  
out.println(sname);%></h3>  
</body>  
</html>
```

Output:



Current Date and Time: Sun Mar 24 18:19:55 IST 2024

Header Information: User Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/122.0.0.0 Safari/537.36
Referer: null

Added Cookie: HelloGT (Cookie value)

Value of parameter defined in init-param: InitParam tag or its parameter is not defined

Value of context parameter "myContextParam": ContextParam tag or its parameter is not defined

Current Session ID: C8FC887DB713D89E745CF0BD25675AFC

Attributes of pageContext: GT

Generated Servlet Name: jsp

Assignment 4th

SET-A

Q3. Write a Servlet application to display Hello Java Message on the Browser.

Q3.java

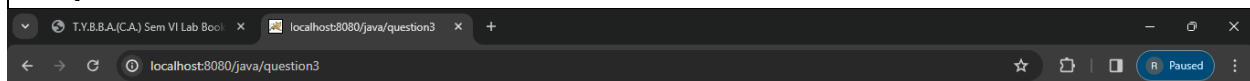
```
import javax.servlet.*;
import java.io.*;

public class Q3 extends GenericServlet {
    public void service(ServletRequest rq, ServletResponse rs) throws ServletException,
        IOException {
        PrintWriter pw = rs.getWriter();
        pw.print("<html><head><style>h1{ margin-
top:200px;}</style></head><body><center><h1 id='text'>Hello
Java</h1></center></body></html>");
    }
}
```

web.xml

```
<servlet>
<servlet-name>question3</servlet-name>
<servlet-class>Q3</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>question3</servlet-name>
<url-pattern>/question3</url-pattern>
</servlet-mapping>
</web-app>
```

Output:



Hello Java

Assignment 4th

SET-A

Q4. Write a JSP script to display all the prime number's between 1 to n in Red Color.

Q4.jsp

```
<html>
<head>
  <title>SET-A[d]</title>
</head>
<body>
  <form action="set-a(d).jsp" method="POST">
    <input type="number" name="tb1" placeholder="Enter limit: ">
    <input type="submit">
  </form>

  <%
  if (request.getMethod().equals("POST")) {
    for (int n=2;n<=Integer.parseInt(request.getParameter("tb1"));n++){
      if (primenum(n)){
        %>
        <font color="red"> <%=n%></font><br>
      }
    }
  }
  %>

  <%!
  boolean primenum(int n1) {
    if (n1<2)
      return false;
    for (int i=2;i<=Math.sqrt(n1);i++) {
      if (n1%i==0)
        return false;
    }
    return true;
  }
  %>
</body>
</html>
```

Output:

T.Y.B.B.A.(C.A.) Sem VI Lab Boop

SET-A[d]

localhost:8080/program/SET-A/set-a(d).jsp

☆

Paused

Enter limit:

Submit

2
3
5
7
11
13
17
19
23
29
31
37
41
43
47
53
59
61
67
71
73
79
83
89
97



Assignment 4th

SET-A

Q5. Write a JSP application to accept the details of Emp (Eno, EName, Salary) and display it in Tabular format on the browser.

```
<!DOCTYPE html>
<html>
<head>
  <title>SET-A[ e ]</title>
</head>
<body>
  <fieldset>
    <legend>Employee Details</legend>
    <form id="myForm" action="set-a(c).jsp" method="POST">
      <input type="text" name="tb1" placeholder="Enter Eno"><br><br>
      <input type="text" name="tb2" placeholder="Enter EName"><br><br>
      <input type="text" name="tb3" placeholder="Enter Salary"><br><br>
      <input type="submit" name="submit">
    </form>
  </fieldset>

  <div id="optable">
    <%
    if(request.getMethod().equals("POST")) {
    %>
    <table border="1">
      <tr>
        <th>ENo</th>
        <th>EName</th>
        <th>Salary</th>
      </tr>
      <tr>
        <td><%=request.getParameter("tb1")%></td>
        <td><%=request.getParameter("tb2")%></td>
        <td><%=request.getParameter("tb3")%></td>
      </tr>
    </table>
    <%
    }
    %>
  </div>
</body>
</html>
```

Output:



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/program/SET-A/set-a(c).jsp'. The page content includes a form titled 'Employee Details' with three input fields: 'EId' (containing '1'), 'ENAME' (containing 'Ganesh Telore'), and 'SALARY' (containing '1000000'). Below the form is a 'Submit' button. At the bottom, a table displays the entered data: ENo 1, EName Ganesh Telore, and Salary 1000000.

ENo	ENAME	SALARY
1	Ganesh Telore	1000000

Assignment 4th

SET-B

Q1. Design an HTML page which passes customer number to a search servlet. The servlet searches for the customer number in a database (customer table) and returns customer details if found the number otherwise display error message.

Q1.html:

```
<html>
<body>
    <fieldset>
        <legend>Customer Search</legend>
        <form action="sample2" method="GET">
            <input type="text" name="tb1" placeholder="Enter CNo"/>
            <br><br>
            <input type="submit" name="submit"/>
        </form>
    </fieldset>
</body>
</html>
```

IndexServlet.java:

```
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;

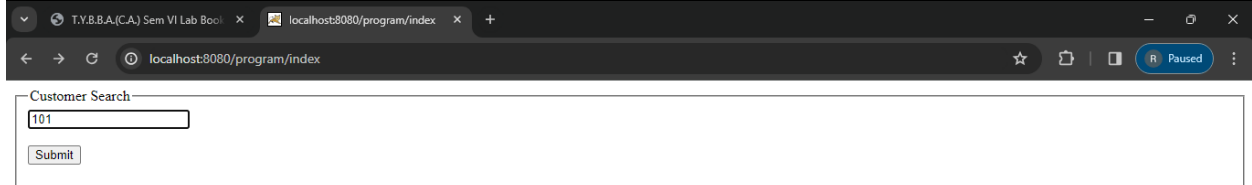
public class IndexServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
        RequestDispatcher d = request.getRequestDispatcher("/WEB-INF/Q1.html");
        d.forward(request, response);
    }
}
```

web.xml:

```
<web-app>
    <servlet-mapping>
        <servlet-name>index</servlet-name>
        <url-pattern>/index</url-pattern>
    </servlet-mapping>
    <servlet>
        <servlet-name>index</servlet-name>
```

```
<servlet-class>IndexServlet</servlet-class>
</servlet>
</web-app>
```

Output:



Customer Search



CNo	CName	CAddress	CContact
101	Ganesh Telore	Ganeshnagar	8010486885

Assignment 4th

SET-B

Q2. Design an HTML page containing option buttons (Maths, Physics, Chemistry and Biology) and buttons submit and reset. When the user clicks submit, the server responds by adding a cookie containing the selected subject and sends a message back to the client. Program should not allow duplicate cookies to be written.

```
if(request.getParameter("r").equals("physics")){
```

```

        if (cookies != null) {
            for (Cookie c : cookies) {
                if (c.getName().equals("physics")) {
                    %><script>alert('Cookie already created for
Physics');</script><%

                }else{
                    Cookie ck=new Cookie("physics","Physics");
                    ck.setMaxAge(10);
                    response.addCookie(ck);
                }
            }
        }
        %><script>alert('You selected Physics');</script>
        <% }
        if(request.getParameter("r").equals("chemistry")){
            if (cookies != null) {
                for (Cookie c : cookies) {
                    if (c.getName().equals("chemistry")) {
                        %><script>alert('Cookie already created for
Chemistry');</script><%

                    }else{
                        Cookie ck=new
                        Cookie("chemistry","Chemistry");

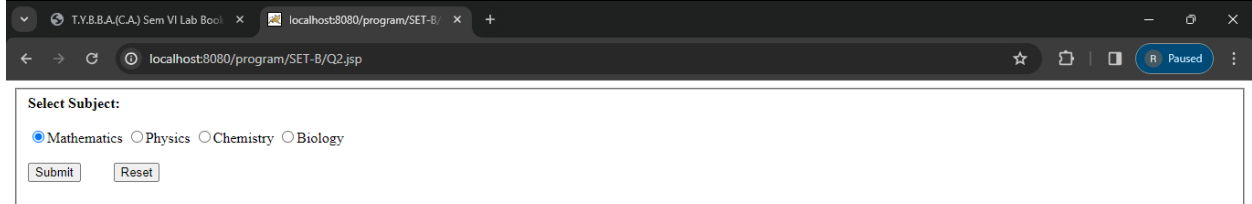
                        ck.setMaxAge(10);
                        response.addCookie(ck);
                    }
                }
            }
            %><script>alert('You selected Chemistry');</script><%
        } if(request.getParameter("r").equals("bio")){
            if (cookies != null) {
                for (Cookie c : cookies) {
                    if (c.getName().equals("bio")) {
                        %><script>alert('Cookie already created for
Biology');</script><%

                    }else{
                        Cookie ck=new Cookie("bio","Biology");
                        ck.setMaxAge(10);
                        response.addCookie(ck);
                    }
                }
            }
            %><script>alert('You selected Biology');</script><% } } }%>
    </body>

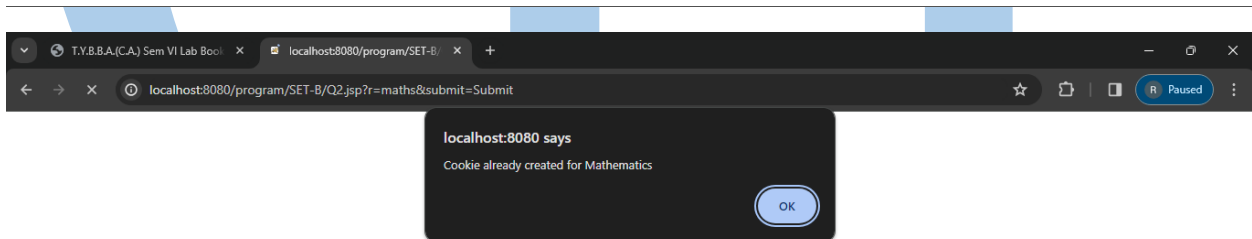
```

</html>

Output: (cookie time is set to 10 sec after 10 sec cookie will get automatically deleted.)



The screenshot shows a web browser window with two tabs. The active tab is titled 'localhost:8080/program/SET-B/' and the address bar shows 'localhost:8080/program/SET-B/Q2.jsp'. The page content includes a 'Select Subject:' label, four radio buttons for 'Mathematics', 'Physics', 'Chemistry', and 'Biology', and two buttons labeled 'Submit' and 'Reset'. The 'Mathematics' radio button is selected.



Assignment 4th

SET-B

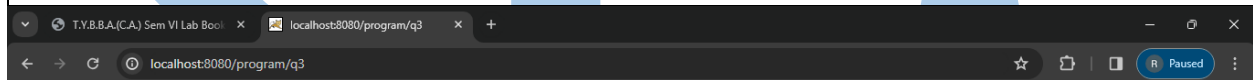
Q3. Write a Servlet program to display the details of PATIENT (PatientNo, PatientName, PatientAddress, Patientage, PatientDisease) in tabular form on browser.

Q3.java:

```
import javax.servlet.*;
import java.io.*;
import javax.servlet.http.*;

public class Q3 extends HttpServlet{
    public Q3(){
        super();
    }
    public void service(HttpServletRequest rq,HttpServletResponse rs) throws
    ServletException,IOException{
        PrintWriter pw=rs.getWriter();
        pw.print("<html><body><center><h2>Patient Details</h2><table
border='1'><tr>
<th>Patient No</th><th>PatientName</th><th>PatientAddress</th>
<th>PatientAge</th>
<th>PatientDisease</th></tr><tr><td>1</td><td>Ganesh
Telore</td><td>Ganeshnagar</td><td>20</td><td>Typhoid</td></table>
</center></body></html>");
        pw.close();
    }
}
```

Output:



Patient Details

Patient No	PatientName	PatientAddress	PatientAge	PatientDisease
1	Ganesh Telore	Ganeshnagar	20	Typhoid

Assignment 4th

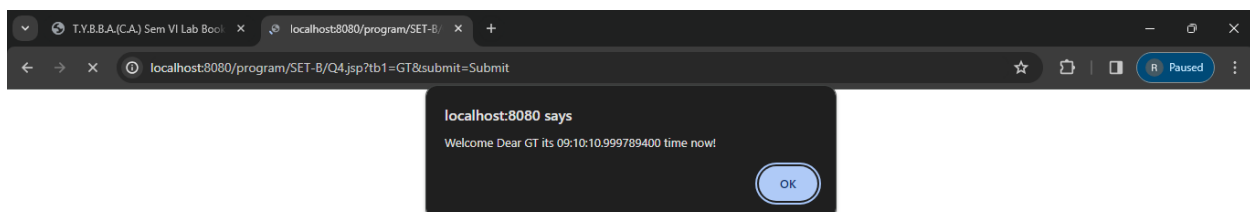
SET-B

Q4. Write a JSP application to accept a user name and greets to the user according to the system Time.

Q4.jsp:

```
<%@ page import="java.time.LocalTime" %>
<html>
<body>
    <fieldset>
        <legend>Informmation</legend>
        <form action="Q4.jsp" method="GET">
            <input type="text" name="tb1" placeholder="Enter Your Name">
            <br><br>
            <input type="submit" name="submit">
        </form>
    </fieldset>
    <%
        if(request.getMethod().equals("GET")){
            String user=request.getParameter("tb1");
            LocalTime time=LocalTime.now();
            %>
            <script>alert('Welcome Dear <%=user%> its <%=time%> time
now!');</script>
            <%
            }
        %>
    </body>
</html>
```

Output:



Assignment 4th

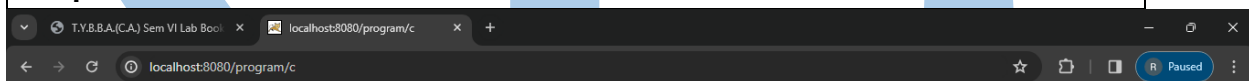
SET-B

Q5. Write a Servlet program for the implementation of session tracking.

c.java:

```
import javax.servlet.*;
import javax.servlet.http.*;
import java.util.*;
import java.io.*;
public class c extends HttpServlet{
    public c(){
        super();
    }
    public void service(HttpServletRequest rq,HttpServletResponse rs) throws
ServletException,IOException {
        HttpSession s=rq.getSession();
        s.setAttribute("mysession","HeyGT");
        PrintWriter pw=rs.getWriter();
        pw.print("<h1>Rerieved value of session:
"+s.getAttribute("mysession")+ "</h1>");
        pw.close();
    }
}
```

Output:



Rerieved value of session: HeyGT

Assignment 4th

SET-C

Q1. Create a JSP page for an online multiple choice test. The questions are randomly selected from a database and displayed on the screen. The choices are displayed using radio buttons. When the user clicks on next, the next question is displayed. When the user clicks on submit, display the total score on the screen.

Q1.jsp:

```
<%@ page import="java.sql.*, java.util.*" %>
<html>
<head>
  <title>MCQ Test</title>
</head>
<body>
  <%! int res1=0;
  int res2=0;%>
  <%
  Random rd = new Random();
  int que = rd.nextInt(2) + 1;

  try {
    Class.forName("com.mysql.cj.jdbc.Driver");
    Connection conn =
    DriverManager.getConnection("jdbc:mysql://localhost:3306/adv_java", "root", "");
    Statement state = conn.createStatement();
    ResultSet rs = state.executeQuery("SELECT * FROM mcq WHERE mid=" + que);
    while (rs.next()) {
      if(que==1){
%>
  <div id="mcq1">
    <form action="Q1.jsp" method="POST">
      <label><%= rs.getString("que") %></label><br>
      <input type="radio" name="q1" value="0"> a) It allows you to modify the source
code of a class at runtime.<br>
      <input type="radio" name="q1" value="2"> b) It enables you to analyze and
manipulate the structure of a class at runtime<br>
      <input type="radio" name="q1" value="0"> c) It provides a way to create dynamic
proxies for interfaces.<br>
      <input type="radio" name="q1" value="0"> d) It allows you to perform low-level
memory management in Java.<br>
      <input type="submit" name="submit1">
    </form>
```

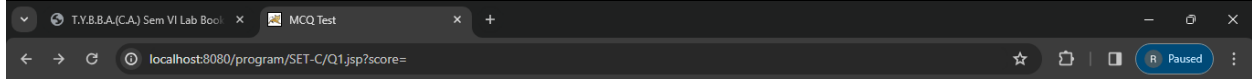
```

</div><% }else{ %>
<div id="mcq2">
    <form action="Q1.jsp" method="POST">
        <label><%= rs.getString("que") %></label><br>
        <input type="radio" name="q2" value="0"> a) It ensures that the variable is newer
modified by multiple threads simultaneously.<br>
        <input type="radio" name="q2" value="2"> b) It guarantees that the variable value
will be visible to all the threads<br>
        <input type="radio" name="q2" value="0"> c) It enable a variable to be accessed by
multiple threads without synchronization.<br>
        <input type="radio" name="q2" value="0"> d) It prevents a variable from being
caught by the CPU ensuring its value is always read from the main memory.<br>
        <input type="submit" name="submit2">
    </form>
</div>
<% }
}
rs.close();
state.close();
conn.close();
} catch (Exception e) {
    out.println("Exception: " + e.getMessage());
}
%>
<%
if (request.getParameter("submit1") != null) {
    res1=Integer.parseInt(request.getParameter("q1"));
%>
<script>
    document.getElementById('mcq1').style.display='none';
</script>
<%
}
else if(request.getParameter("submit2") != null){
    res2=Integer.parseInt(request.getParameter("q2"));
%>
<script>document.getElementById('mcq2').style.display='none';</script>
<% } %>
<form action="Q1.jsp" method="GET"><button name="score">View
Score</button></form>
<%if(request.getMethod().equals("GET")){
if(request.getParameter("score")!=null){
    out.println("<script>alert('Your score is: " + (res1 + res2) +
    ""');</script>");

```

```
}  
}  
%>  
</body>  
</html>
```

Output: Use mysql connector for mysql connectivity.



Which is the true about Java's reflection API?

- ☐ a) It allows you to modify the source code of a class at runtime.
- ☒ b) It enables you to analyze and manipulate the structure of a class at runtime
- ☐ c) It provides a way to create dynamic proxies for interfaces.
- ☐ d) It allows you to perform low-level memory management in Java.

Submit

View Score

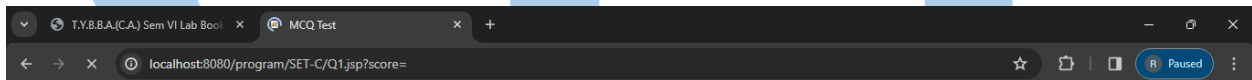


What is the purpose of volatile keyword in java?

- ☐ a) It ensures that the variable is newer modified by multiple threads simultaneously.
- ☒ b) It guarantees that the variable value will be visible to all the threads
- ☐ c) It enable a variable to be accessed by multiple threads without synchronization.
- ☐ d) It prevents a variable from being cached by the CPU ensuring its value is always read from the main memory.

Submit

View Score



localhost:8080 says

Your score is: 4

OK

Assignment 4th

SET-C

Q2. Write a program to create an Online Book purchase. User must be login and then purchase the book. Each page should have a page total. The last page should display a total book and bill, which consists of a page total of whatever the purchase has been done and print the total. (Use HttpSession)

Q2.jsp:

```
<html>
<title>Book Store</title>
<head>
<style>
    body{
        background: linear-gradient(90deg in oklab,blue,red);
    }
    form{
        width: 50%;
        margin-top: 15%;
        border-radius: 8px;
        height: 300px;
    }
    input[type=text]{
        background-color: transparent;
        height: 40px;
        border-radius: 8px;
        border: 1px solid #fff;
        width: 200px;
        color: #fff;
        margin-top: 20px;
        padding-left: 10px;
    }
    input::placeholder{
        color: #fff;
    }
    input[type=password]{
        background-color: transparent;
        height: 40px;
        padding-left: 10px;
        width: 200px;
        border-radius: 8px;
        border: 1px solid #fff;
        margin-top: 20px;
    }
    input[type=submit]{
```

```

        height: 40px;
        background: orangered;
        width: 200px;
        margin-top: 20px;
        color: #fff;
        border: 1px solid transparent;
        border-radius: 8px;
    }
</style>
</head>
<body>
    <center>
        <form action="Q2.jsp" method="POST">
            <input type="text" name="username" placeholder="username"
required><br><br>
            <input type="password" name="password" placeholder="password"
required ><br><br>
            <input type="submit" name="submit">
        </form>
    </center>
    <% if(request.getMethod().equals("POST")){
        if(request.getParameter("username").equals("ganeshtelore") &&
request.getParameter("password").equals("GT")){
        %>
        <script>window.location='book.jsp';</script>
        <%
        }
    } %>
</body>
</html>

```

book.jsp:

```

<%@page session="true"%>
<%@ page import="javax.servlet.http.HttpSession" %>
<html>
    <head>
        <title>Books</title>
        <link rel="stylesheet" href="book.css">
    </head>
    <body>
        <%! int total=0;
        int totalbook=0;
        HttpSession s;
        %>

```

```
<% s=request.getSession(); %>
<h1 id="heading">Books</h1>
  <div class="card-container">
    <div class="card">
      
      <div class="container">
        <form action="book.jsp" method="POST">
          <h4><b>Java Book</b></h4>
          <input type="hidden" name="bookprice" value="200">
          <input type="hidden" name="bookquantity" value="1">
          <div class="btn"><input type="submit" value="Buy" name="buy"></div>
        </form>
      </div>
    </div>
    <div class="card">
      <form action="book.jsp" method="POST">
        
        <h4><b>PHP Book</b></h4>
        <p>Content2</p>
        <input type="hidden" name="bookprice" value="200">
        <input type="hidden" name="bookquantity" value="1">
        <div class="btn"><input type="submit" value="Buy" name="buy"></div>
      </form>
    </div>
    <div class="card">
      <form action="book.jsp" method="POST">
        
        <h4><b>HTML Book</b></h4>
        <input type="hidden" name="bookprice" value="200">
        <input type="hidden" name="bookquantity" value="1">
        <div class="btn"><input type="submit" value="Buy" name="buy"></div>
      </form>
    </div>
    <div class="card">
      <form action="book.jsp" method="POST">
        
        <h4><b>C++ Book</b></h4>
        <input type="hidden" name="bookprice" value="200">
        <input type="hidden" name="bookquantity" value="1">
        <div class="btn"><input type="submit" value="Buy" name="buy"></div>
      </form>
    </div>
  </div>
</div>
<%
```



```
if(request.getMethod().equals("POST")){

    if(request.getParameter("bookprice") != null &&
request.getParameter("bookquantity")!=null){
        total=total+Integer.parseInt(request.getParameter("bookprice"));
        totalbook=totalbook+Integer.parseInt(request.getParameter("bookquantity"));
s.setAttribute("ftotal",total);
s.setAttribute("ftotalbk",totalbook); %>
<script>alert('total price :<%=total%>');</script>
<% } } %>
<a href="book2.jsp"><button>Next</button></a>
<h3 id="tbk">Total Books: <%=totalbook%></h3>
</body>
</html>
```

book.css:

```
*{
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: 'Poppins',sans-serif;
}
body{
    background-color: #fff;
}
#heading{
    text-align: center;
    margin-top: 40px;
}
nav{
    position: fixed;
    background: #fff;
    width: 100%;
    top: 0;
    height: 60px;
}
nav:hover{
    border-bottom: 1px solid #999;
    cursor: pointer;
}
nav .menu{
    width: 100%;
    height: 50px;
    display: flex;
```

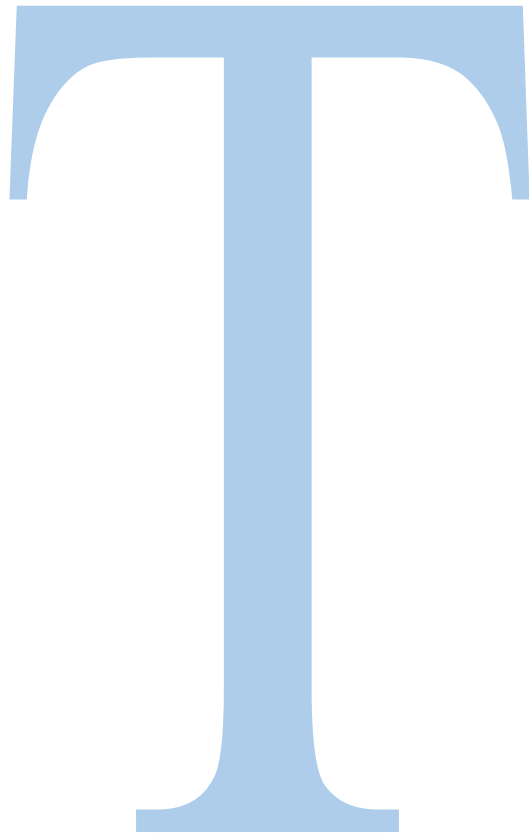
```
padding-top: 15px;
}
#navmenu{
  right: 0;
}
/* .menu .logo{
  margin-left: 500px;
}*/
.menu .logo a {
  text-decoration: none;
  color: red;
  font-size: 25px;
  font-weight: 600;
  padding: 5px 10px;
}

.menu ul{
  margin-left: 530px;
  display: inline-flex;
}
.menu ul li{
  list-style: none;
  margin-left: 7px;
}
.menu ul li:first-child{
  margin-left: 0px;
}
.menu ul li a{
  text-decoration: none;
  color: #999;
  font-size: 18px;
  font-weight: 500;
  padding: 8px 15px;
  border-radius: 5px;
  transition: all 0.3s ease;
}
.menu ul li a:hover{
  background: #fff;
  color: black;
  border-bottom: 1px solid #999;
}
.center{
  display: flex;
  margin-top: 5%;
}
```

```
width: 100%;
padding: 0 20px;
text-align: center;
}
h1{
margin: 20px;
color: #999;
text-align: center;
}
.center .sec-div1{
width: 40%;
text-align: left;
margin-left: 30px;
margin-top: 80px;
}
.center .sec-div1 span{
color: #999;
font-size: 40px;
font-weight: 50;
}
.center .sec-div1 h3{
padding-top: 20px;
font-size: 20px;
color: #666;
}
.center .sec-div1 p{
color: #666;
padding-top: 20px;
}
.center .sec-div2{
width: 70%;
}
.sec-div2 img{
width: 100%;
height: 400px;
}
.center b{
padding: 10px;
color: #000;
}
footer{
margin-top: 50px;
background-color: #000;
height: 140px;
```



```
}  
.card-container{  
  display: flex;  
}  
.card {  
  margin-top: 50px;  
  box-shadow: 0 0px 8px 0 rgba(0,0,0,0.4);  
  transition: 0.3s;  
  width: 300px;  
  height: auto;  
  border-radius: 5px;  
  margin-left: 28px;  
  cursor: pointer;  
}  
  
.card:hover {  
  box-shadow: 0 8px 16px 8px rgba(0,0,0,0.2);  
  transform: translate(0, -10px);  
}  
  
.card img {  
  border-radius: 5px 5px 0 0;  
  height: 200px;  
  width: 100%;  
}  
.btn{  
  margin: 20px;  
  text-align: center;  
}  
input[type=submit]{  
  font-size: 14px;  
  width: 70px;  
  height: 35px;  
  color: #fff;  
  background-color: #000;  
  outline: none;  
  border: none;  
  border-radius: 8px;  
  cursor: progress;  
}  
.card button:hover{  
  background-color: orangered;  
  transition: 1s ease;  
}
```



```
.container {
  padding: 2px 16px;
}
#tbk {
  bottom: 0;
  position: fixed;
  margin-left: 10px;
  text-align: left;
}
```

book2.jsp:

```
<%@page session="true"%>
<%@ page import="javax.servlet.http.HttpSession" %>
<html>
  <head>
    <title>Books</title>
    <link rel="stylesheet" href="book.css">
  </head>
  <body>
    <!-- int stotal=0;
    int stotalbook=0;
    HttpSession s2;
    int bt1=0;
    int tb=0;
    -->
    <% s2=request.getSession(); %>
    <h1 id="heading">Books</h1>
    <div class="card-container">
      <div class="card">
        
        <div class="container">
          <form action="book2.jsp" method="POST">
            <h4><b>Java Book</b></h4>
            <input type="hidden" name="bookprice" value="200">
            <input type="hidden" name="bookquantity" value="1">
            <div class="btn"><input type="submit" value="Buy" name="buy"></div>
          </form>
        </div>
      </div>
      <div class="card">
        <form action="book2.jsp" method="POST">
          
          <h4><b>PHP Book</b></h4>
          <p>Content2</p>
```

```

<input type="hidden" name="bookprice" value="200">
<input type="hidden" name="bookquantity" value="1">
<div class="btn"><input type="submit" value="Buy" name="buy"></div>
</form>
</div>
<div class="card">
<form action="book2.jsp" method="POST">

<h4><b>HTML Book</b></h4>
<input type="hidden" name="bookprice" value="200">
<input type="hidden" name="bookquantity" value="1">
<div class="btn"><input type="submit" value="Buy" name="buy"></div>
</form>
</div>
<div class="card">
<form action="book2.jsp" method="POST">

<h4><b>C++ Book</b></h4>
<input type="hidden" name="bookprice" value="200">
<input type="hidden" name="bookquantity" value="1">
<div class="btn"><input type="submit" value="Buy" name="buy"></div>
</form>
</div>
</div>
<%
if(request.getMethod().equals("POST")){

    if(request.getParameter("bookprice") != null &&
request.getParameter("bookquantity")!=null){
        stotal=stotal+Integer.parseInt(request.getParameter("bookprice"));
        stotalbook=stotalbook+Integer.parseInt(request.getParameter("bookquantity"));
        Integer booktp=(Integer) s2.getAttribute("ftotal");
        Integer tbook=(Integer) s2.getAttribute("ftotalbk");
        bt1=booktp;
        tb=tbook;
        bt1=bt1+stotal;
        tb=tb+tbook;
        s2.setAttribute("newtotal",bt1);
        s2.setAttribute("newtbk",tb);
    }
    %>
<script>alert('total price :<%=bt1%>');</script>
<% } } %>
<a href="total.jsp"><button>Generate Bill</button></a>
<h3 id="tbk">Total Books: <%=tb%></h3>

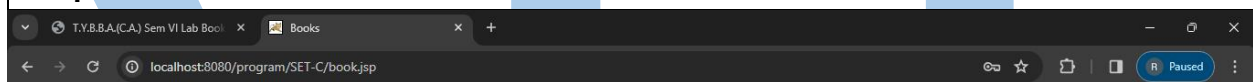
```

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

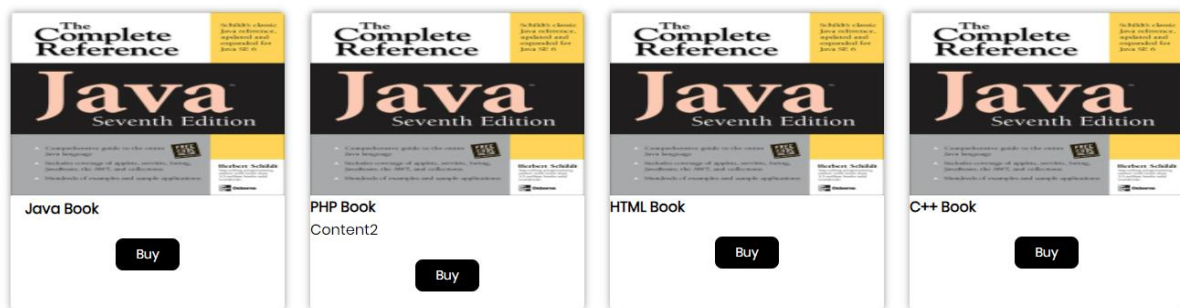
total.jsp:

```
<%@ page session="true"%>
<%@ page import="javax.servlet.http.HttpSession" %>
<html>
<body>
    <% int t1=0;
    int t2=0;
    HttpSession s3 = request.getSession();
    %>
    <center>
    <table border="1">
        <tr>
            <th>Total Books </th>
            <th>Total Price </th>
        </tr>
        <tr>
            <td><%=s3.getAttribute("newtotal")%></td>
            <td><%=s3.getAttribute("newtbk")%></td>
        </tr>
    </table>
    </center>
</body>
</html>
```

Output:



Books



Next

Total Books: 1

Books

Java Book

Buy

PHP Book
Content2

Buy

HTML Book

Buy

C++ Book

Buy

Generate Bill

Total Books: 3

Total Bill

Total Books	Total Price
600	3

Thank you for shipping with us!!!

Assignment 4th

SET-C

Q3. Write a JSP application to accept the details of Teacher (TID, TName, Salary) and display it in tabular format.

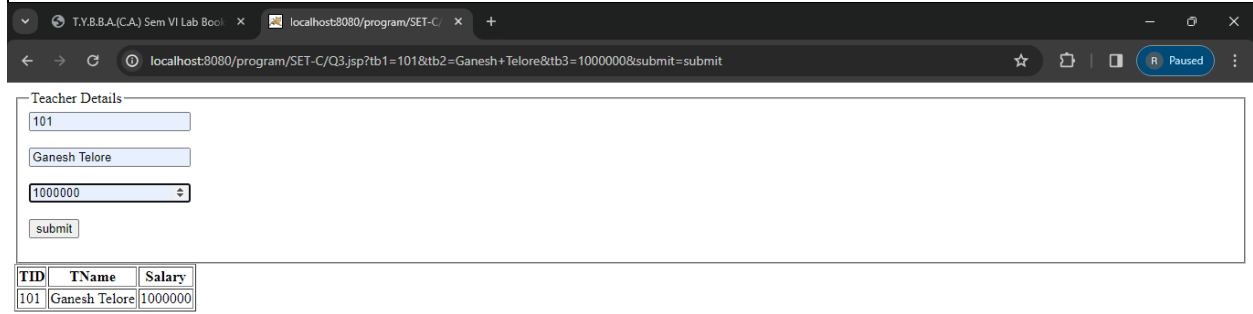
Q3.jsp:

```
<html>
<body>
    <fieldset>
        <legend>Teacher Details</legend>
        <form action="Q3.jsp" method="GET">
            <input type="number" name="tb1" placeholder="Enter Teacher ID here.."
required>
            <br><br>
            <input type="text" name="tb2" placeholder="Enter Teacher Name here.."
required>
            <br><br>
            <input type="number" name="tb3" placeholder="Enter Teacher Salary
here.." required>
            <br><br>
            <input type="submit" name="submit" value="submit">
        </form>
    </fieldset>
    <% if(request.getMethod().equals("GET")){
        if(request.getParameter("submit").equals("submit")){
            %>
            <table border="1">
                <tr>
                    <th>TID</th>
                    <th>TName</th>
                    <th>Salary</th>
                </tr>
                <tr>
                    <td><%=request.getParameter("tb1")%></td>
                    <td><%=request.getParameter("tb2")%></td>
                    <td><%=request.getParameter("tb3")%></td>
                </tr>
            </table>
```

```
<%  
    }  
    }  
%>
```

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

Output:



The screenshot shows a web browser window with the address bar displaying `localhost:8080/program/SET-C/Q3.jsp?tb1=101&tb2=Ganesh+Telore&tb3=1000000&submit=submit`. The page content includes a form titled "Teacher Details" with the following fields:

-
-
-
-

Below the form is a table with the following data:

TID	TName	Salary
101	Ganesh Telore	1000000

Thank You!