

1. Write A JAVA Servlet Program To Implement And Demonstrate Get() And Post Methods(Using HTTP Servlet Class).

doGet.html

```
<html>
  <head>
    <title>Demonstrate get and post method</title>
  </head>
  <body >
    <center>
      <p><b>Press submit method to call get method</b></p>
      <form action="getPost" method="Get">
        <table border="1">
          <tr><td>
            <tr>
              <td><b>Name:</b></td><td><input type="text" name="name"></td>
            </tr>
            <tr>
              <td><b>Gender</b></td>
              <td><select name="gender" size="1">
                <option value="male">male</option>
                <option value="Female">female</option>
              </select></td>
            </tr>
            <tr>
              <td><b>Phone number:</b></td>
              <td><input type="text" name="phone"></td>
            </tr>
            <tr>
              <td><b>Address:</b></td>
              <td><textarea name="address" rows="10" cols="30"></textarea></td>
            </tr>
          </table>
          </td></tr>
          <tr>
            <td><center><input type=submit value="submit"></center></td>
          </tr>
        </table>
      </form>
    </center>
  </body>
</html>
```

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doPost.html

```
<html>
  <head>
    <title>Demonstrate get and post method</title>
  </head>
  <body>
    <center>
      <p><b>Press submit method to call get method</b></p>
      <form action="getPost" method="Get">
        <table border="1">
          <tr><td>
            <table>
              <tr>
                <td><B>Name:</B></td><td><input type="text" name="name"></td>
              </tr>
              <tr>
                <td><b>Gender</b></td>
                <td><select name="gender" size="1">
                  <option value="male">male</option>
                  <option value="Female">female</option>
                </select></td>
              </tr>
              <tr>
                <td><b>Phone number:</b></td>
                <td><input type="text" name="phone"></td>
              </tr>
              <tr>
                <td><b>Address:</b></td>
                <td><textarea name="address" rows="10" cols="30"></textarea></td>
              </tr>
            </table>
          </td></tr>
          <tr>
            <td><center><input type="submit" value="submit"></center></td>
          </tr>
        </table>
      </form>
    </center>
  </body>
</html>
```

getPost.java

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2. Write A JAVA Servlet Program To Implement Requestdispatcher Object (Use Include() And Forward() Methods).

IFDemo.html

```
<html>
  <head>
    <title>include and forward Demo</title>
  </head>
  <body>
    <center><h1>include forward Demo</h1></center>
    <b>Please enter mode of operation
    <form action="/PROG4/IFDemo">
      <p><input type="text" name="mode" length=40>
      <p> <input type="submit" value="Submit">
      <input type="reset" value="Clear">
    </form>
  </body>
</html>
```

IFDemo.java

```
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
public class IFDemo extends HttpServlet
{
    public void doGet(HttpServletRequest request,HttpServletResponse response)
    {
        String mode=request.getParameter("mode");
        try
        {
            response.setContentType("text/html");
            PrintWriter out = response.getWriter();
            RequestDispatcher rd=null;
            if(mode.equals("forward"))
            {
                request.setAttribute("mode","Forward Response....");
                rd=request.getRequestDispatcher("ForwardDemo");
                rd.forward(request,response);
            }
            else if(mode.equals("include"))
            {
                request.setAttribute("mode","Include Response...");
                out.println("<html><head><title>Includes Demo</title></head>");
                out.println("<body><h1>Hello from Level 1</h1>");
                out.println("This text is displayed at Level 1.");
                rd = request.getRequestDispatcher("IncludeDemo");
                rd.include(request, response);
                out.println("</body></html>");
                out.close();
            }
        }
    }
}
```

```
        else
        {
            out.println("<h3> Enter only include or forward</h3>");
            out.close();
        }
    }
    catch(Exception e)
    {
        e.printStackTrace();
    }
}
}
```

ForwardDemo.java

```
import javax.servlet.http.*;
import java.io.*;
public class ForwardDemo extends HttpServlet
{
    public void doGet(HttpServletRequest request,HttpServletResponse response)
    {
        try
        {
            response.setContentType("text/html");
            PrintWriter writer=response.getWriter();
            String mode=(String)request.getAttribute("mode");
            writer.println("Another doGet ");
            writer.println(mode);
            writer.close();
        }
        catch(Exception e)
        {
            e.printStackTrace();
        }
    }
}
```

IncludeDemo.java

```
import javax.servlet.http.*;
import java.io.*;
public class IncludeDemo extends HttpServlet
{
    public void doGet(HttpServletRequest request,HttpServletResponse response)
    {
        try
        {
            response.setContentType("text/html");
            PrintWriter writer=response.getWriter();
            String mode=(String)request.getAttribute("mode");
            writer.println("<br><b>This is another text of "+mode);
            writer.close();
        }
        catch(Exception e)
        {
            e.printStackTrace();
        }
    }
}
```

3. Write A Java Jsp Program To Implement Verification Of A Particular User Login And Display A Welcome Page.

Login.jsp

```
<html>
    <head>
        <title>Login Page</title>
    </head>
    <body bgcolor="#ffff">
        <form action="Validation.jsp">
            <table border="0">
                <tr>
                    <td>User id :</td>
                    <td><input type="text" name="uname"/><br></td>
                </tr>
                <tr>
                    <td>password :</td>
                    <td><input type="password" name="password"/><br></td>
                </tr>
                <tr>
                    <td align="center">
                        <input type="submit" value="submit">
                        <input type="reset" value="reset"></td>
                    </tr>
            </table>
        </form>
    </body>
</html>
```

Validation.jsp

```
<html>
  <body>
    <%! String uid="vas";%>
    <%! String pass="mvit";%>
    <%! String id,password; %>
    <% id=request.getParameter("uname"); %>
    <% password=request.getParameter("password"); %>
    <%
      if(uid.equals(id) && pass.equals(password))
      {
    %>
      <jsp:forward page="Welcome.jsp"/>
    %>
      }
      else
      {
    %>
      <jsp:forward page="Error.jsp"/>
    %>
      }
    %>
  </body>
</html>
```

Welcome.jsp

```
<body>
  <center><h1> Welcome to Home Page</h1></center>
</body>
```

Error.jsp

```
<body> <h1>Invalid Entry ....</h1>
  <a href="Login.jsp"> BACK</a>
</body>
```

4. Write A JAVA Servlet Program To Implement Sessions (Using HTTP Session Interface).

ShowSession.java

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

public class ShowSession extends HttpServlet
{
    public void doGet(HttpServletRequest request,HttpServletResponse responses)
    throws ServletException,IOException
    {
        res.setContentType("text/html");
        PrintWriter out=response.getWriter();
        String title="Session Tracking Example";
        HttpSession session=request.getSession(true);
        String heading;
        Integer ac=(Integer)session.getAttribute("ac");
        if(ac==null)
        {
            ac=new Integer(0);
            heading ="welcome,Newcomer";
        }
        else
        {
            heading="Welcome back";
            ac=new Integer(ac.intValue()+1);
        }
        session.setAttribute("ac",ac);
        out.println("<html><head><title>Session</title></head>");
        out.println(heading+"<br>");
        out.println("sessionID = " +session.getId()+ "<br>");
        out.println("ac = " +ac+ "<br>");
        out.close();
    }
}
```

5. Write A JSP Program Which Uses Jsp:Include & Jsp:Forward Action To Display A Web Page.

Prog7a.jsp:

```
<html>
    <head>
        <title> First</title>
    </head>
    <body>
        <jsp:include page="prgm7b.jsp"/>
    </body>
</html>
```

Prog7b.jsp:

```
<html>
    <head>
        <title>lab program 1</title>
    </head>
    <body bgcolor="grey">
        <h1 align="center">LOGIN PAGE</h1><hr>
        <form action="prgm6c.jsp" method="post">
            <table width=50 border=0 align="center">
                <tr>
                    <td>USERNAME:</td>
                    <td><input type="text" name="username"></td>
                </tr>
                <tr>
                    <td>PASSWORD:</td>
                    <td><input type="password" name="password"></td>
                </tr>
                <tr>
                    <td><input type="submit" value="click to submit">
                    </td>
                </tr>
            </table>
        </form>
    </body>
</html>
```

Prog7c.jsp:

```
<html>
    <head><title>THIRD</title></head>
    <body>
        <% String user=request.getParameter("username");
        String password=request.getParameter("password");
        if(user!=null && password!=null && user.equals("Venki") && password.equals("mca"))
        {
            %>
            <jsp:forward page="prgm7d.jsp"/>
        <%
        }
        else {
            %>
            <jsp:forward page="prgm7e.jsp"/>
        <%
        }
        %>
    </body>
</html>
```

Prog7d.jsp:

```
<html>
  <head><title>FOURTH</title></head>
  <body bgcolor="grey">
    <h1 align="center"> WELCOME Venki</h1>
  </body>
</html>
```

Prog7e.jsp:

```
<html>
  <head><title>FIFTH</title></head>
  <body bgcolor="grey">
    <font color="red">
      <h1 align="center" > Invalid user!!! enter Again</h1></font>
      <form action="prgm6c.jsp" method=post>
        <table width=50 border=0 align="center">
          <tr>
            <td>USERNAME:</td>
            <td><input type="text" name="username"></td>
          </tr>
          <tr>
            <td>PASSWORD:</td>
            <td><input type="password" name="password"></td>
          </tr>
          <tr>
            <td></td>
            <td><input type="submit" value="click to submit"></td>
          </tr>
        </table>
      </form>
    </body>
  </html>
```

6. Write A JSP Program To Implement All The Attributes Of Page Directive Tag.

Login.html

```
<html>
  <head><title>page directive</title>
  </head>
  <body bgcolor="cyan">
    <h1 align="center"> ENTER THE TWO VALUES</h1>
    <form action="Directive.jsp">
      <table border="1" align="center">
        <tr>
          <td>Enter First Value:</td>
          <td><input type="text" name="val1"></td>
        </tr>
        <tr>
          <td>Enter Second Value:</td>
          <td><input type="text" name="val2"></td>
        </tr>
      </table>
    </form>
  </body>
</html>
```

```
</tr>
<tr>
    <td></td>
    <td><input type="submit" value="calculate"></td>
</tr>
</table>
</form>
</body>
</html>
```

Directive.jsp

```
<%@ page import="java.util.Date" language="java"
    errorPage="Error.jsp"%>
<html>
    <head>
        <title>JSP PAGE</title>
    </head>
    <body bgcolor="grey"><br><br>
    <%! double a, b;%>
    <%
        String str1 = request.getParameter("val1");
        String str2 = request.getParameter("val2");
        a = Integer.parseInt(str1);
        b = Integer.parseInt(str2);
    %>
    <CENTER><h1>PAGE DIRECTIVE PROGRAM</h1></CENTER>
    <table border="1" align="center">
    <b><tr>
        <th>Time</th>
        <th>Value1</th>
        <th>Value2</th>
        <th>Quotient:</th>
    </tr></b>
    <tr>
        <td><h2>Welcome!! Today is <%= new Date()%></h2></td>
        <td><%=a%></td>
        <td><%=b%></td>
        <td><%=a / b%></td>
    </tr>
    </table>
</body>
</html>
```

Error.jsp

```
<%@ page language="java" contentType="text/html;"
    isErrorPage="true"%>
<html>
    <head>
        <title>Insert title here</title>
    </head>
    <body>
        <h3>sorry an exception occurs</h3>
        <h2>The exception is:
        <%= exception%></h2>
    </body>
</html>
```

7. Write a Java Program that reads on file name from the user, then displays information about whether the file exists, whether the file is readable, whether the file is writable, the type of file and the length of the file in bytes.

FileDemo.java

```
import java.io.File;
import java.io.*;
class FileDemo
{
    static void p(String s)
    {
        System.out.println(s);
    }
    public static void main(String args[ ])
    {
        File f1 = new File(args[0]);
        p("File Name: " + f1.getName());
        p("Path: " + f1.getPath());
        p("Abs Path: " + f1.getAbsolutePath());
        p("Parent: " + f1.getParent());
        p(f1.exists() ? "exists" : "does not exist");
        p(f1.canWrite() ? "is writeable" : "is not writeable");
        p(f1.canRead() ? "is readable" : "is not readable");
        p("is " + (f1.isDirectory() ? "" : "not" + " a directory"));
        p(f1.isFile() ? "is normal file" : "might be a named pipe");
        p(f1.isAbsolute() ? "is absolute" : "is not absolute");
        p("File last modified: " + f1.lastModified());
        p("File size: " + f1.length() + " Bytes");
    }
}
```

8. Write a Java Program that reads a file and displays the file on the screen, with a line number before each line.

LineNum.java

```
import java.io.*;
class LineNum
{
    public static void main(String args[])
    {
        String thisline;
        for(int i=0;i<args.length;i++)
        {
            try
            {
                LineNumberReader br=new LineNumberReader(new FileReader(args[i]));
                while((thisline=br.readLine())!=null)
                {
                    System.out.println(br.getLineNumber()+". "+thisline);
                }
            }
            catch(IOException e)
            {
                System.out.println("error:"+e);
            }
        }
    }
}
```

9. Write a java servlet program using cookies to remember user preferences

Cokkie.html

```
<html>
    <body bgcolor="grey">
        <center><h1> COOKIES</h1></center><hr><br>
        <form action="HelloForm">
            <center><table border=0>
                <th>
                    <td>NAME: <input type="text" name="name"></td>
                </th>
                <th>
                    <td>PASSWORD:<input type="password" name="password"></td>
                </th>
            </table>
            <input type="submit" value="submit"><hr>
        </center>
    </form>
</body>
</html>
```

Helloform.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class HelloForm extends HttpServlet
{
    public void doGet(HttpServletRequest request,HttpServletResponse response)throws
    ServletException,IOException
    {
        Cookie Name=new Cookie("name",request.getParameter("name"));
        Cookie password=new Cookie("password",request.getParameter("password"));
        Name.setMaxAge(60*60*24);
        password.setMaxAge(60*60*24);
        response.addCookie(Name);
        response.addCookie(password);
        response.setContentType("text/html");
        PrintWriter out=response.getWriter();
        out.println("<html><body bgcolor=grey>"+"<h1><center>cookies
value</center></h1>"+"<li><b><center>First
Name:</b>"+request.getParameter("name")+</center>\n\n"+<li><b><center>Last Name:</b>"+
request.getParameter("password")+</center>\n\n"+</body></html>");
    }
}
```

ReadCookies.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class ReadCookies extends HttpServlet
{
    public void doGet(HttpServletRequest request,HttpServletResponse response)throws
    ServletException,IOException
    {
        Cookie cookie=null;
        Cookie[] cookies=request.getCookies();
        response.setContentType("text/html");
        PrintWriter out=response.getWriter();
        out.println("<html><body>");
        if(cookies!=null)
        {
            out.println("<h2> Found Cookies name & value</h2>");
            for(int i=0;i<cookies.length;i++)
            {
                cookie=cookies[i];
                out.print("Name:"+cookie.getName()+",");
                out.print("value:"+cookie.getValue()+"<br/>");
            }
        }
        else
        {

```

```
        out.println("no cookies found");
    }
    out.println("<body></html>");
}
}
```

10. Write a XML program with css properties to display student information such as first name,last name and address.

Students.css

<!--students.css- a style sheet for the students.xml document-->

Student

```
{
    display: block;
    margin-top: 15px;
    color: blue;
}
```

name

```
{
    display: block;
    margin-left:40px;
    margin-top: 30pt;
    color:red
}
```

Firstname

```
{
    font-size: 28pt;
}
```

Lastname

```
{
    font-size: 28pt;
}
```

Address

```
{
    display: block;
    margin-left:40px;
    color:green
}
```

Street

```
{
    display: block;
    font-size: 18pt;
}
```

City

```
{
    display: block;
    font-size: 18pt;
}
```

Email

```
{
```

```
        display: block;
        font-size: 18pt;
        color:blue
    }
    Phone
    {
        display: block;
        font-size: 18pt;
    }
}
```

Student.xml

```
<?xml version = "1.0"?>
<!-- students3.xml for the CSS -->
<?xml-stylesheet type="text/css" h ref= "students.css"?>
<students>
    <student>
        <name>
            <firstname> Venkatesh </firstname>
            <lastname> N </lastname>
        </name>
        <address>
            <street> 3rd South Street</street>
            <city> Shankaraghatta </city>
            <email> Venki@gmail.com</email>
            <phone> 0123456789 </phone>
        </address>
    </student>
    <student>
        <name>
            <firstname> Shankar</firstname>
            <lastname> Deva</lastname>
        </name>
        <address>
            <street> 25th Victoria Road </street>
            <city> Dartmouth </city>
            <email> Shan@gmail.com</email>
            <phone> 9876543210 </phone>
        </address>
    </student>
</students>
```