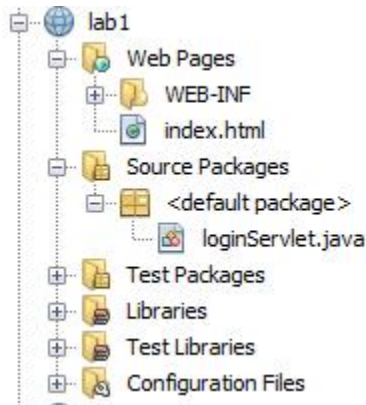


1. Write a JAVA Servlet Program to implement a dynamic HTML using Servlet (user name and Password should be accepted using HTML and displayed using a Servlet).

### Project Structure



### Index.html

```
<html>
<head><title>login</title> </head>
<body>
  <form action="loginServlet" method="get">
    <fieldset>
      <legend>Login Form</legend>
      Username:<input type="text" name="username"/><br/></br>
      Password: <input type="password" name="pass"/><br/></br>
      <input type="submit" value="send"/>
      <input type="reset" value="clear"/>
    </fieldset>
  </form>
</body>
</html>
```

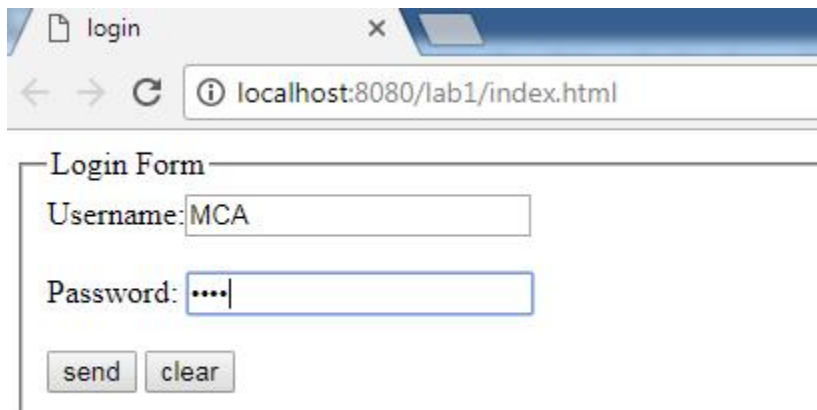
## loginServlet.java

```
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;

public class loginServlet extends HttpServlet {
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        PrintWriter out = response.getWriter();

        String name=request.getParameter("username");
        String secretword=request.getParameter("pass");
        out.println("<html>");
        out.println("<head><title>Servlet</title></head>");
        out.println("<body>");
        out.println("<fieldset>");
        out.println("<h2>You have Entered</h2>");
        out.println("<p>Name: " + name + "</p>");
        out.println("<p> Password: " +secretword+"</p>");
        out.println("</fieldset>");
        out.println("</body>");
        out.println("</html>");
    }
}
```

output:



login

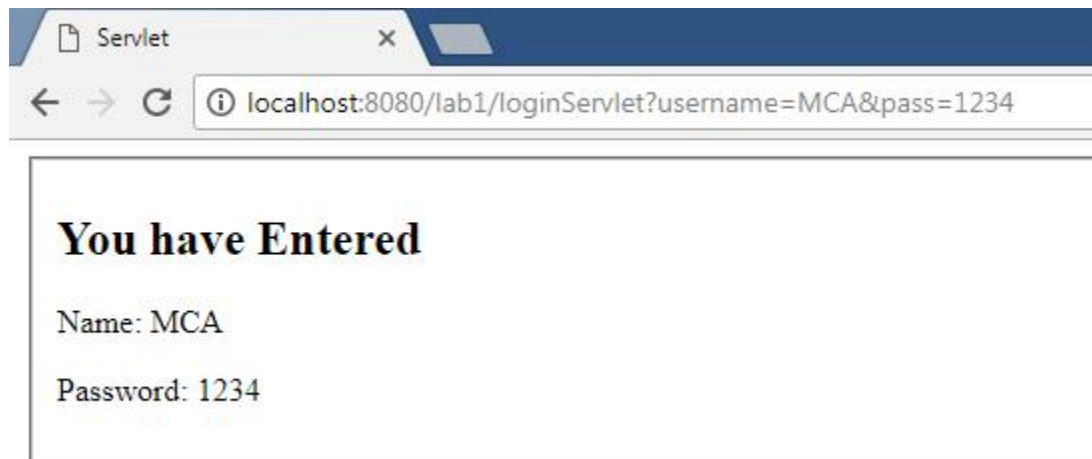
localhost:8080/lab1/index.html

Login Form

Username: MCA

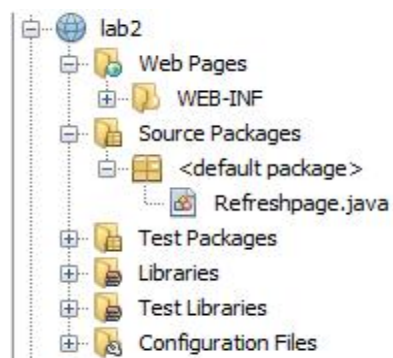
Password: ....

send clear



2. Write a JAVA Servlet Program to Auto Web Page Refresh

#### Project Structure



**Refresh.java**

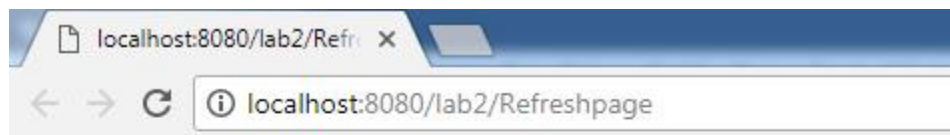
```
import java.io.IOException;
import java.io.PrintWriter;
import java.util.*;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class Refreshpage extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException,
    IOException {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();

        response.addHeader("Refresh", "3");

        out.println("<h1>Auto page Refresh using Servlet: </h1>");
        out.println("<br><h2>Today's date and time </h2>" + new Date());
    }
}
```

## output



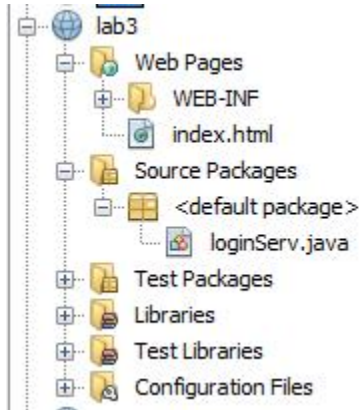
**Auto page Refresh using Servlet:**

**Today's date and time**

Tue Mar 06 21:23:27 IST 2018

3. Write a java servlet program to implement and demonstrate get() and post() methods

### Project structure



Index.html

```
<html>
  <head>
    <title>TODO supply a title</title>  </head>
  <body>
    <form action="loginServ" method="get">
      <h2> Using Get method</h2>
      <h3> UserName: <input type="text" name="uname"/></h3>
      <h3> Password:<input type="password" name="pwd"/></h3>
      <input type="submit" value="get()"/>
      <input type="reset">
      <hr>
    </form>

    <form action="loginServ" method="post">
      <h2> Using Post method</h2>
      <h3> UserName: <input type="text" name="uname1"/></h3>
      <h3> Password:<input type="password" name="pwd1"/></h3>
      <input type="submit" value="post()"/>
      <input type="reset">
      <hr>
    </form>
  </body>
</html>
```

## loginServ.java

```
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;

public class loginServ extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        String uname = request.getParameter("uname");
        String pwd=request.getParameter("pwd");

        PrintWriter out=response.getWriter();

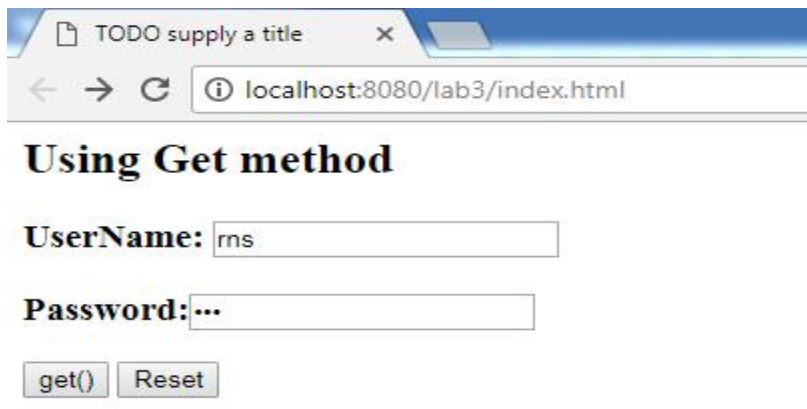
        out.println("<!DOCTYPE html>");
        out.println("<html>");
        out.println("<head><title>Servlet loginServ</title></head>");
        out.println("<body>");
        out.println("<h1>Details of Get()</h1>");
        out.println("<h1>username: " + uname+ "</h1>");
        out.println("<h1>password: " + pwd+ "</h1>");
        out.println("</body></html>");
    }

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        String uname1 = request.getParameter("uname1");
        String pwd1=request.getParameter("pwd1");
        PrintWriter out=response.getWriter();
        out.println("<!DOCTYPE html>");
        out.println("<html>");
        out.println("<head>");
        out.println("<title>Servlet loginServ</title>");
        out.println("</head>");
        out.println("<body>");
```

```
        out.println("<h1>Details of Post()</h1>");
        out.println("<h1>username: " + uname1+ "</h1>");
        out.println("<h1>password: " + pwd1+ "</h1>");
        out.println("</body>");
        out.println("</html>");
    }
}
```

## Output



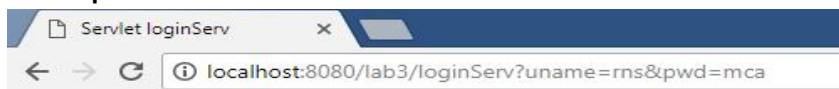
A screenshot of a web browser window. The title bar shows 'TODO supply a title'. The address bar shows 'localhost:8080/lab3/index.html'. The page content includes a heading 'Using Get method', a 'UserName:' label followed by a text input field containing 'rns', a 'Password:...' label followed by a password input field, and two buttons labeled 'get()' and 'Reset'.

## Using Post method



A screenshot of a web browser window showing a form for the 'Using Post method'. It includes a 'UserName:' label with an empty text input field, a 'Password:' label with an empty password input field, and two buttons labeled 'post()' and 'Reset'.

## Get request



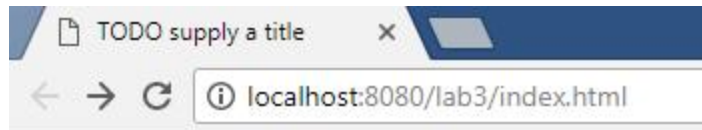
A screenshot of a web browser window. The title bar shows 'Servlet loginServ'. The address bar shows 'localhost:8080/lab3/loginServ?uname=rns&pwd=mca'.

## Details of Get()

**username: rns**

**password: mca**

## Post request



### Using Get method

UserName:

Password:

### Using Post method

UserName:

Password:



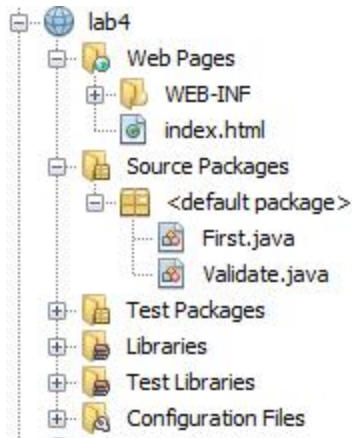
## Details of Post()

**username: MCA**

**password: RNS**



#### 4. Write a JAVA Servlet Program using cookies to remember user preferences



##### Index.html

```
<html>
  <head>
    <title>cookie example</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width">
  </head>
  <body>
    <form method="post" action="Validate">
      <fieldset>
        <h2> Setting cookie </h2>
        <h3>Name:  <input type="text" name="user" /></h3>
        <h3>Password:<input type="password" name="pass" /></h3>
        <input type="submit" value="submit">
      </fieldset>
    </form>
  </body>
</html>
```

##### Validate.java

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

```

public class Validate extends HttpServlet {
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        String name = request.getParameter("user");
        String pass = request.getParameter("pass");

        if(pass.equals("1234"))
        {
            Cookie ck = new Cookie("username",name);
            response.addCookie(ck);

            response.sendRedirect("First");
        }
    }
}

```

### **First.java**

```

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


public class First extends HttpServlet {

    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        PrintWriter out = response.getWriter();
        //read cookie
        Cookie[] cks = request.getCookies();
        out.println("Welcome "+cks[0].getValue());
    }
}

```

Output:



A screenshot of a web browser window. The title bar shows a tab labeled 'cookie example'. The address bar contains 'localhost:8080/lab4/index.html'. The main content area has a heading 'Setting cookie'. Below the heading are two input fields: 'Name:' with the value 'microsoft' and 'Password:' with masked characters '.....'. A 'submit' button is located below the password field.

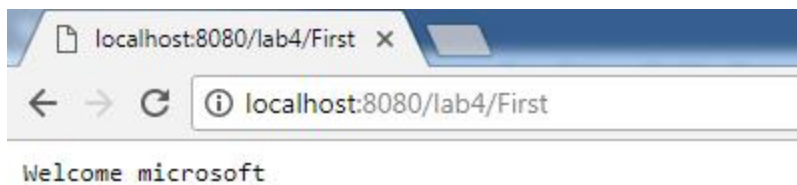
cookie example

localhost:8080/lab4/index.html

## Setting cookie

Name:

Password:



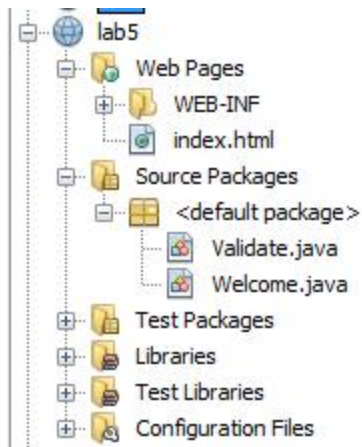
A screenshot of a web browser window. The title bar shows a tab labeled 'localhost:8080/lab4/First'. The address bar contains 'localhost:8080/lab4/First'. The main content area displays the text 'Welcome microsoft'.

localhost:8080/lab4/First

localhost:8080/lab4/First

Welcome microsoft

5. Write a JAVA Servlet program to track HttpSession by accepting user name and password using HTML and display the profile page on successful login.



### Index.html

```
<html>
  <head>
    <title>setting session</title>
  </head>
  <body>
    <form method="post" action="Validate">
      <fieldset>
        <h2> Setting session </h2>
        <h3>Name:  <input type="text" name="user" /></h3>
        <h3>Password:<input type="password" name="pass" /></h3>
        <input type="submit" value="submit">
      </fieldset>
    </form>
  </body>
</html>
```

### Validate.java

```
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;
```

```

import javax.servlet.http.HttpSession;

public class Validate extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        String name = request.getParameter("user");
        String pass = request.getParameter("pass");

        if(pass.equals("1234"))
        {
            //creating a session
            HttpSession session = request.getSession();
            session.setAttribute("user", name);
            response.sendRedirect("Welcome");
        }
    }
}

```

### **Welcome.java**

```

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;
import javax.servlet.http.HttpSession;

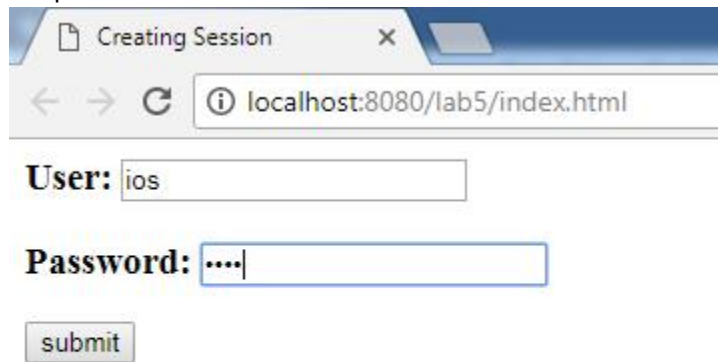
public class Welcome extends HttpServlet {

    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        PrintWriter out = response.getWriter();

        // getting session
        HttpSession session = request.getSession();
        String user = (String)session.getAttribute("user");
        out.println("Hello "+user);
    }
}

```

Output



A screenshot of a web browser window. The title bar shows a tab labeled "Creating Session". The address bar contains "localhost:8080/lab5/index.html". Below the address bar, there is a form with two input fields. The first field is labeled "User:" and contains the text "ios". The second field is labeled "Password:" and contains four dots "....". Below these fields is a button labeled "submit".

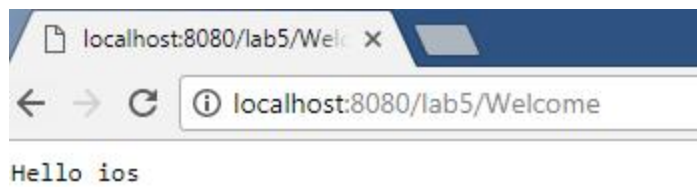
Creating Session

localhost:8080/lab5/index.html

User: ios

Password: ....

submit



A screenshot of a web browser window. The title bar shows a tab labeled "localhost:8080/lab5/Welcome". The address bar contains "localhost:8080/lab5/Welcome". Below the address bar, the text "Hello ios" is displayed.

localhost:8080/lab5/Welcome

localhost:8080/lab5/Welcome

Hello ios