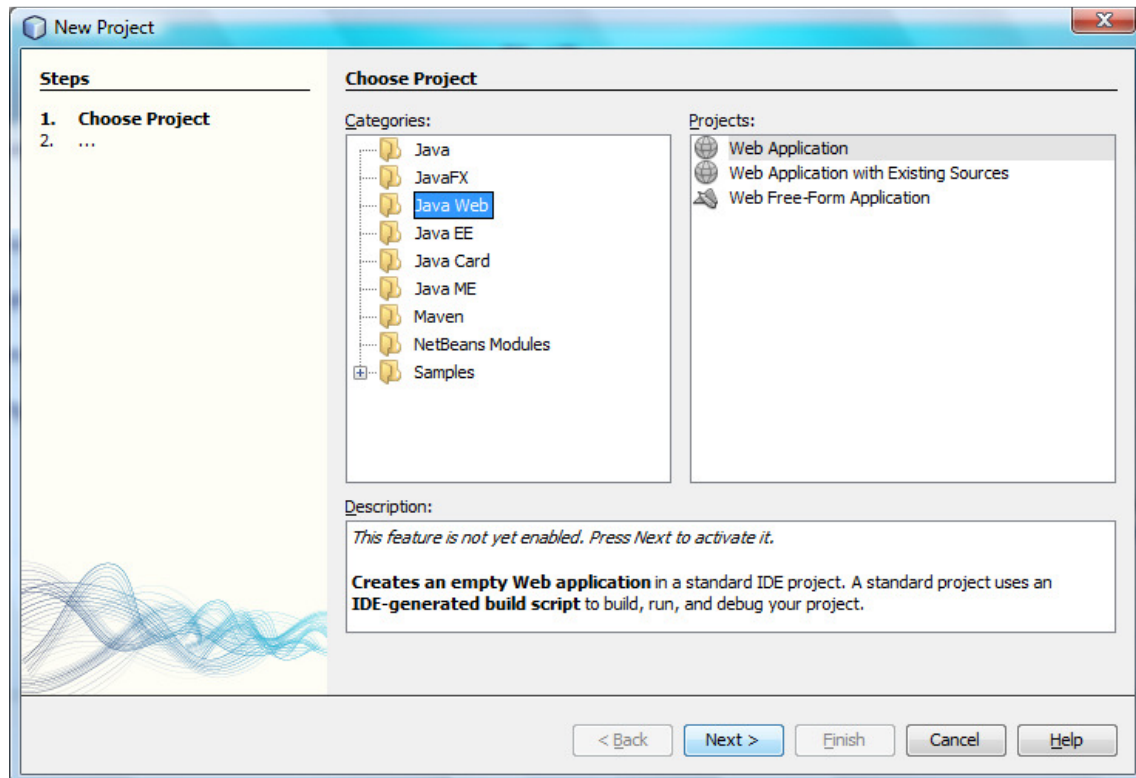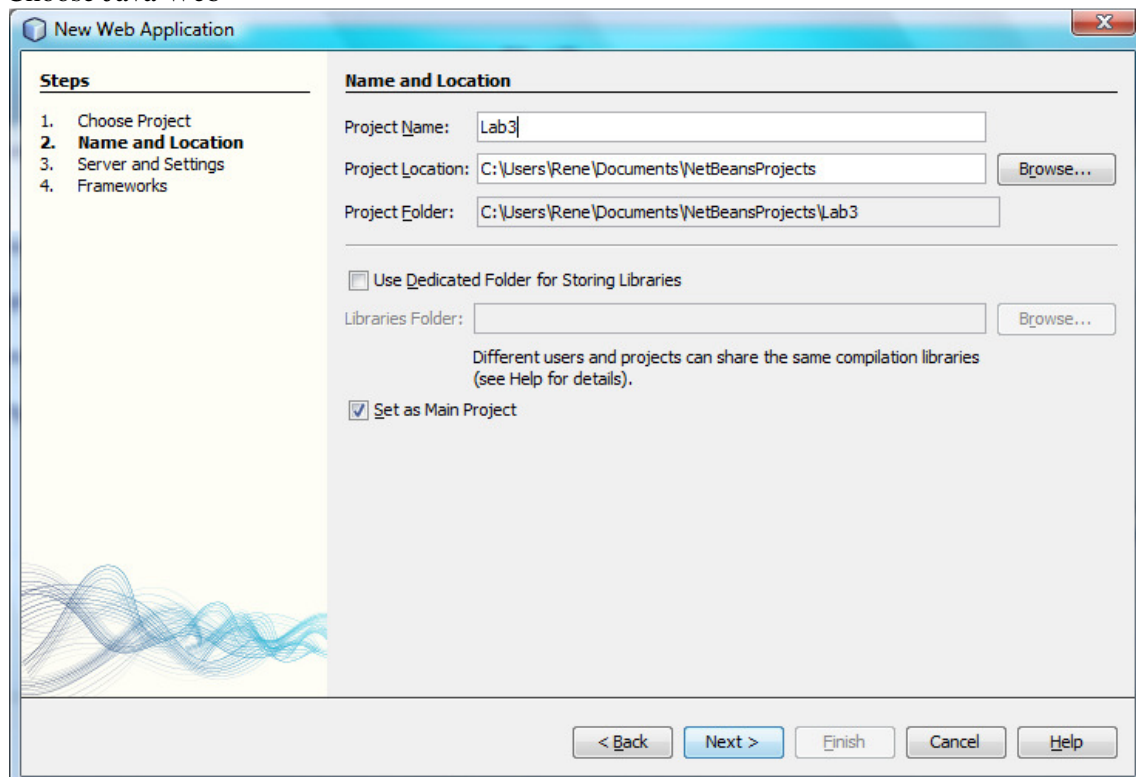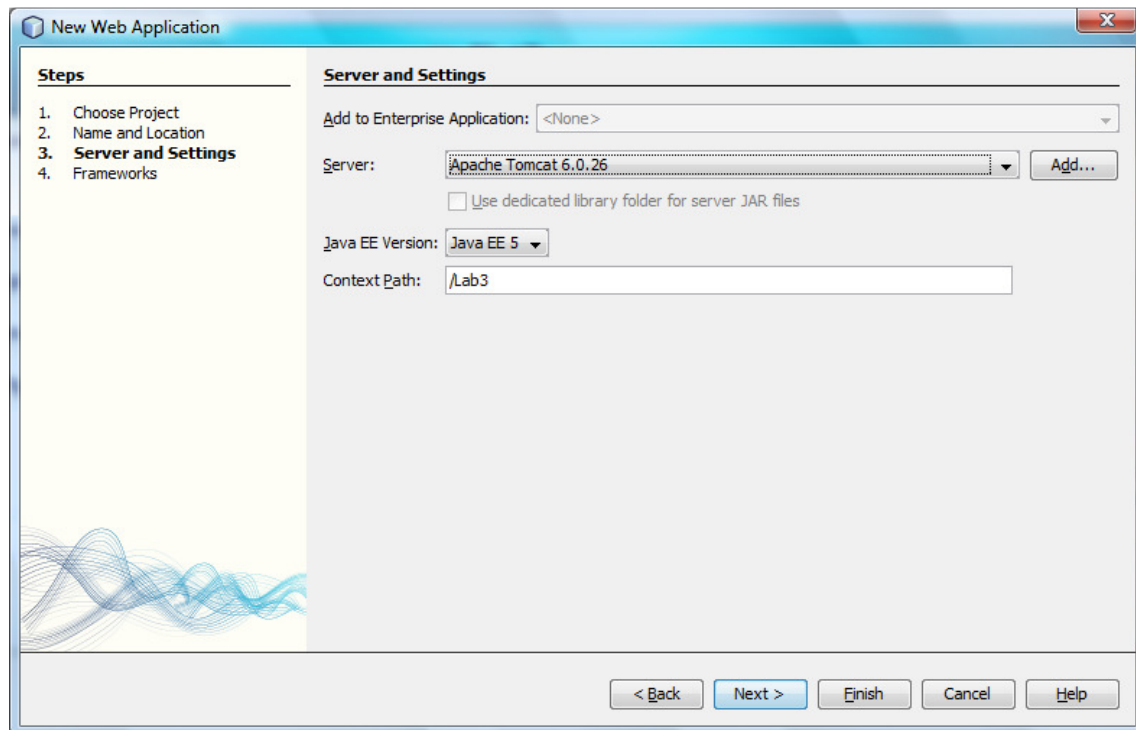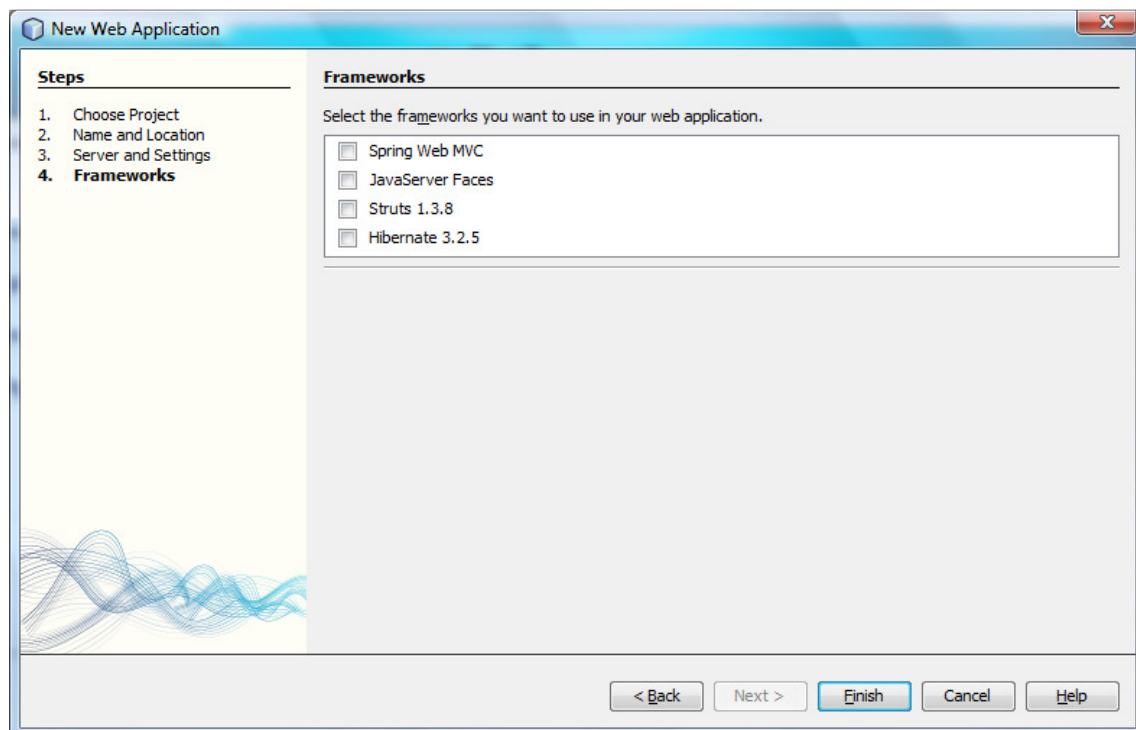## Lab 1: Servlet

Choose from menu: File-> New

Choose Java Web

Set project name to Lab 1 (picture shows lab 3, but you should insert Lab 1) and click next.
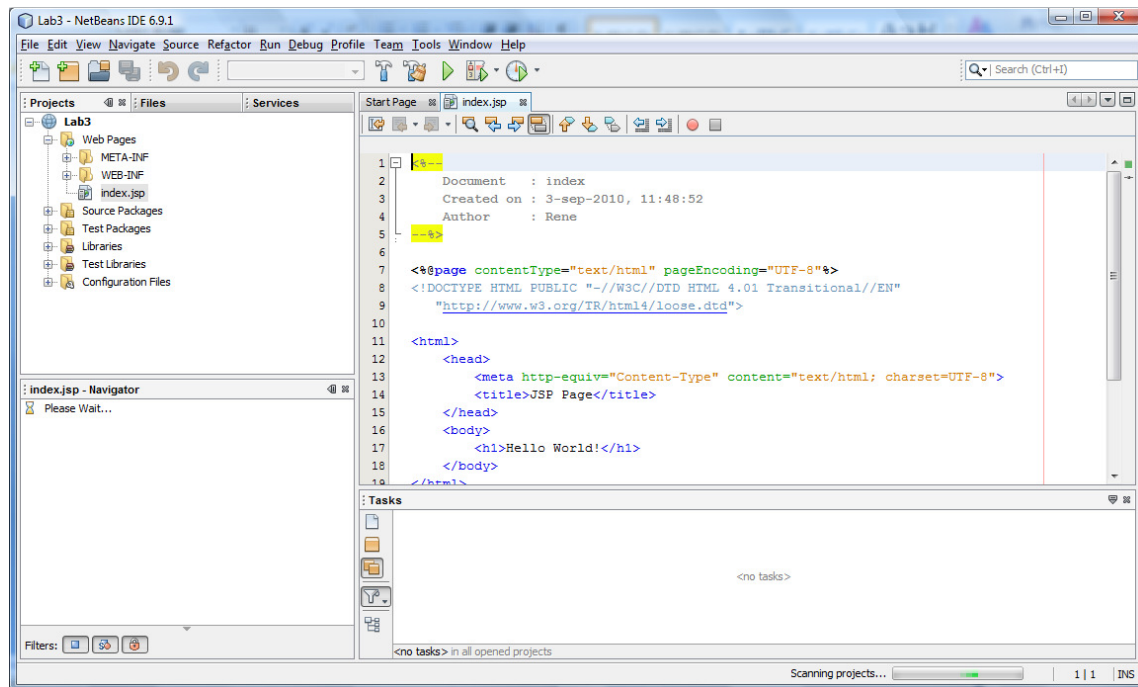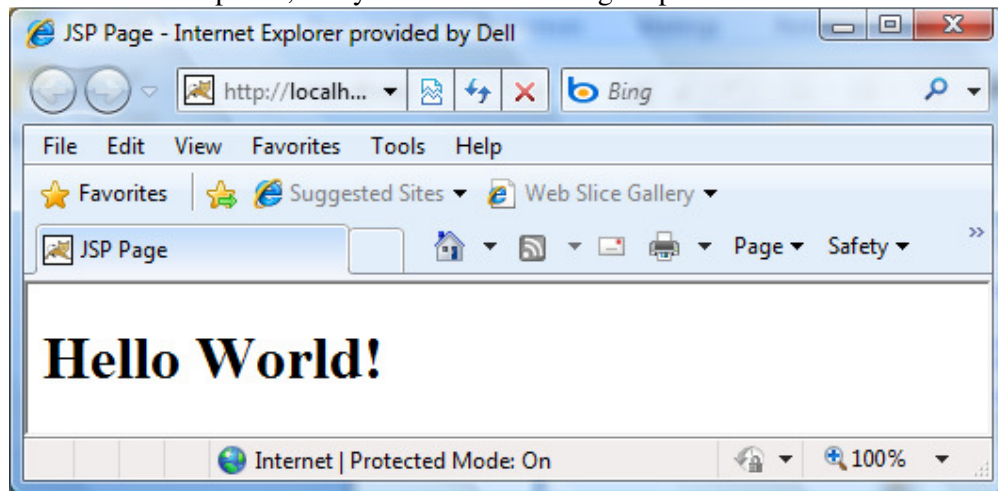
Choose the Tomcat server and click next.

click finish.
Now a Hello world JSP file is created.

Right click now **index.jsp** in the **projects** window and select **Run File**
The project will now be packaged, deployed to Tomcat, and Tomcat will be started. A browser will be opened, and you see the following output:

Now right-click the **Lab 1** project in the **project** window, and select **New->Servlet**.

Name the servlet HelloServlet and click Finish.

A servlet class is created. Change the created code as follows:

```java
public void doGet(HttpServletRequest request, HttpServletResponse response)
                        throws ServletException, IOException {

        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        out.println("<html>");
        out.println("<body>");
        out.println("Hello World");
        out.println("</body>");
        out.println("</html>");

        out.flush();
        out.close();
}
```
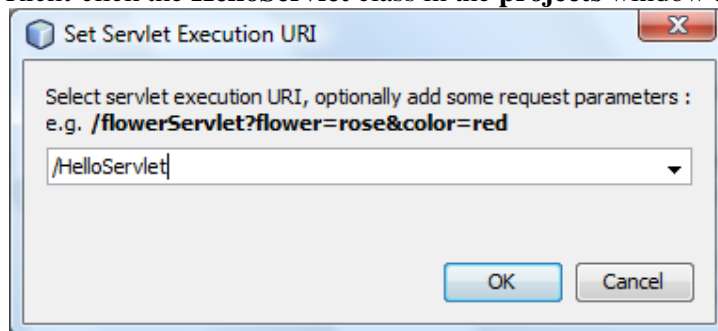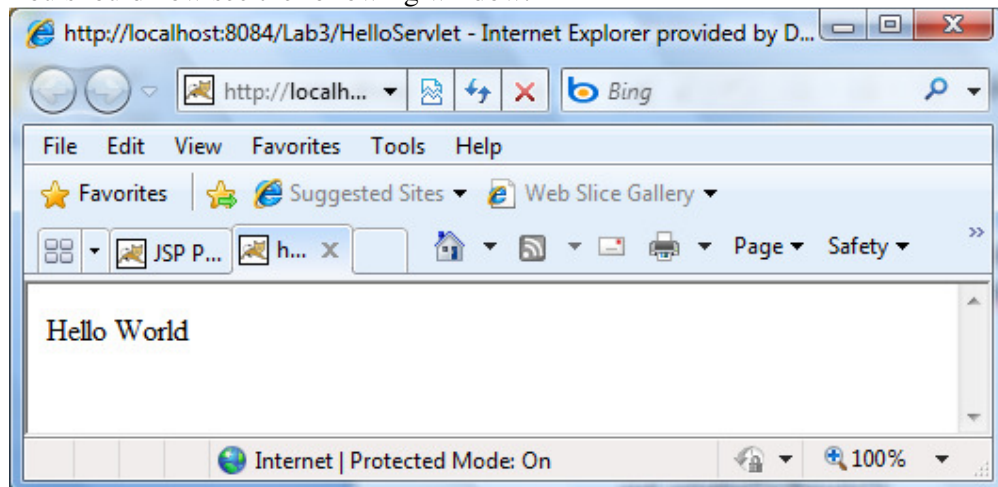
Richt-click the **HelloServlet** class in the **projects** window and select **Run File**

Click OK.
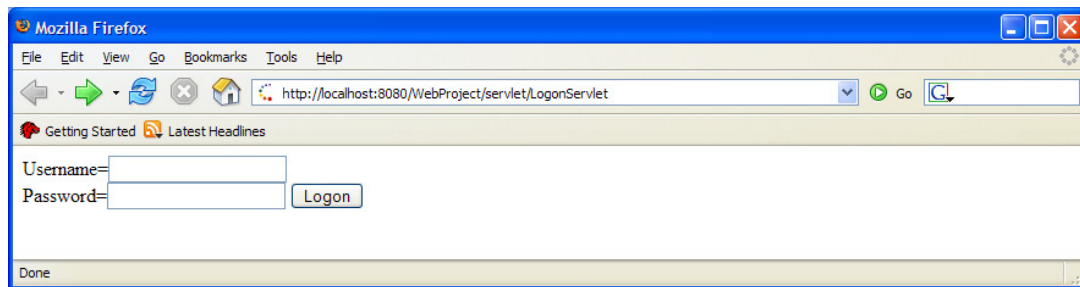You should now see the following window.

Write a *LogonServlet*

The HTML part of the servlet is already given:

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

  out.println("<html>");
  out.println("<body>");
  out.println("<form method=GET action=LogonServlet>");
  out.println("Username=<input type=text name=username> <br>");
  out.println("Password=<input type=text name=password>");
  out.println("<input type=submit value='Logon'>");
  out.println("</form>");
  out.println("</body>");
  out.println("</html>");
  out.close();
}
```
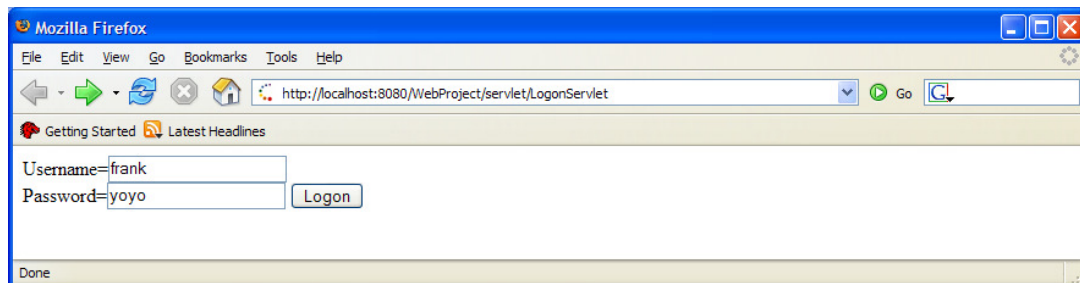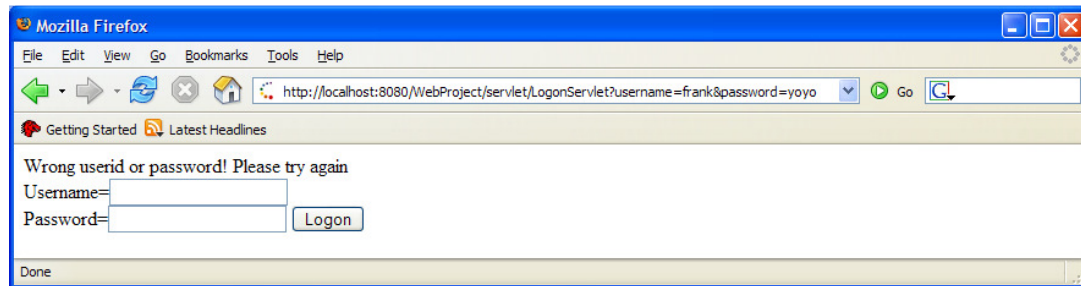
If you run this LogonServlet you get the following page:

Change the LogonServlet such that you can logon successfully only if UserName=user and Password=pass
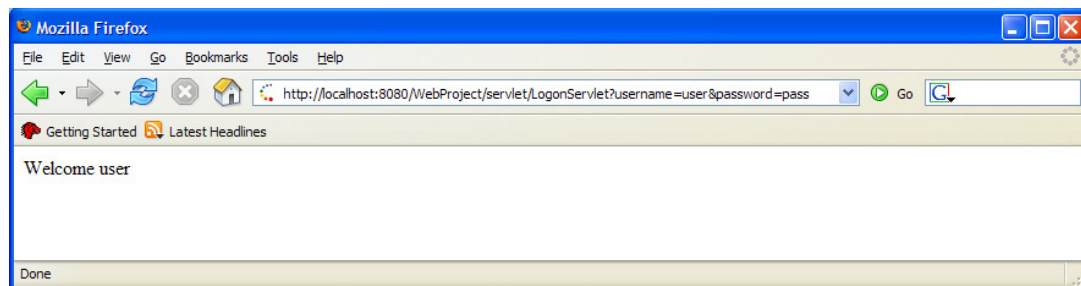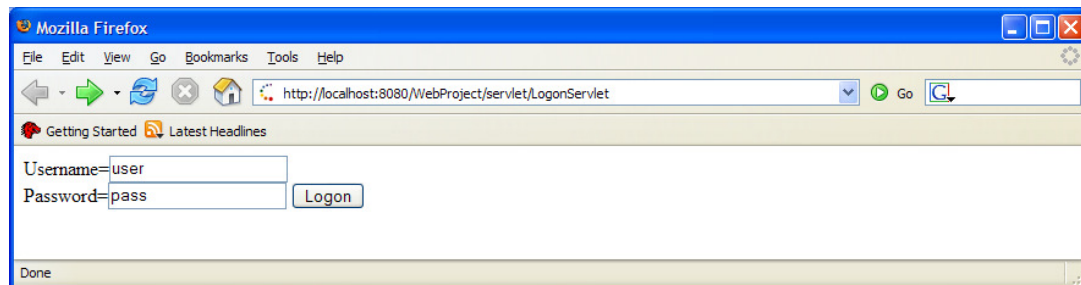If the username and password are not correct

Then show this page.

If the username and password are correct

Then show this page.
(You need to write only 1 servlet class)

Now write a 'guessnumber' servlet. The servlet creates a random number between 1 and 10. The servlet then asks the user to guess the number.
The user enters a number, and the servlet shows if the number was
- Too low, try again
- Too high, try again
- Correct, congratulations!