Lab Exercise - practicing with servlets using sessions

• Work in pairs on this lab exercise.
  – Include BOTH of your usernames to start the servlet class name (e.g., Wxy23Abc12GetDeptEmpls.java)
  – Make sure to include BOTH of your names in a comment in the .java source code file

• Write a servlet that:
  – has a doGet method that:
    – creates a form with appropriate form elements for entering an Oracle username and password which, when submitted, will call the doPost method of this same servlet
    – creates a session attribute indicating that the previous page/screen was the first page
  – has a doPost method that:
    – if the previous page/screen was the first page:
      – grabs the username and password from the form, and saves them as session attributes
      – logs into Oracle using that username and password and queries for the current department names from the dept table
      – builds a form with appropriate form elements for selecting a department name from a select/drop-down that, when submitted, will call the doPost method of this same servlet
      – sets the session attribute indicating that the previous page/screen was the second page
    – else if the previous page/screen was the second page:
      – grabs the department name from the form
      – logs into Oracle using the username and password from the session attributes and queries using a PreparedStatement for the employee last names and salaries of employees in the department with that name
      – builds an XHTML table containing the employee last names and salaries
      – invalidates the session (because the session is now complete)
    – else:
      – it invalidates the session (because something buggy or odd or potentially-nefarious is going on), and
      – redirects to this same servlet (which will cause its doGet method to be called, restarting at the login screen)
This state diagram hopefully summarizes the desired behavior:

- Click submit with good username and password:
  1. login
  2. select dept
  3. show dept's empl names and salaries

- Click submit with bad username and password:
  1. login
  2. select dept
  3. submit dept choice
  4. show dept's empl names and salaries

- Any action:
  1. select dept
  2. submit dept choice
  3. show dept's empl names and salaries