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Part 2

```
package part2;

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 WelcomeServlet extends HttpServlet {

    /**
     * Processes requests for both HTTP GET and POST
     * methods.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */
            out.println(x:"<!DOCTYPE html>");
            out.println(x:"<html>");
            out.println(x:"<head>");
            out.println(x:"<title>Servlet WelcomeServlet</title>");
            out.println(x:"</head>");
            out.println(x:"<body>");
            out.println("ch1>Servlet WelcomeServlet at " + request.getContextPath() + "</h1>");
            out.println(x:"</body>");
            out.println(x:"</html>");
        }
    }

    // <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">
    /**
     * Handles the HTTP GET method.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
        response.getWriter().println("test");
    }

    /**
     * Handles the HTTP POST method.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
    }

    /**
     * Returns a short description of the servlet.
     *
     * @return a String containing servlet description
     */
    @Override
    public String getServletInfo() {
        return "Short description";
    }
} // </editor-fold>
```

Part 3

Exercises 1:

Collect Three Parameters

Part 3 - Exercise 1

First Parameter	<input type="text" value="John"/>
Second Parameter	<input type="text" value="David"/>
Third Parameter	<input type="text" value="Salar"/>
<input type="submit" value="Submit"/>	

Reading Three Request Parameters

- param1: John
- param2: David
- param3: Salar

Code

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Part 3 - Exercise 1</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <div class="container">
      <div class="header">
        <h1 style="margin-bottom: -10px;">Collect Three Parameters</h1>
        <h4>Part 3 - Exercise 1</h4>
      </div>
      <div class="content">
        <div class="header-table">
        </div>
        <div class="content-table">
          <form action="GetThreeParams" method="POST">
            <table>
              <tr>
                <th>First Parameter</th>
                <td>
                  <input type="text" name="1st" required />
                </td>
              </tr>
              <tr>
                <th>Second Parameter</th>
                <td>
                  <input type="text" name="2nd" required />
                </td>
              </tr>
              <tr>
                <th>Third Parameter</th>
                <td>
                  <input type="text" name="3rd" required />
                </td>
              </tr>
              <tr>
                <th></th>
                <td>
                  <input type="submit" value="Submit"/>
                </td>
              </tr>
            </table>
          </form>
        </div>
      </div>
    </div>
  </body>
</html>
```

```

package part3;
/*
import java.io.IOException;
import java.io.PrintWriter;
import static java.awt.Color.*;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 *
 * @author asus
 */
@WebServlet("/GetThreeParams")
public class GetThreeParams extends HttpServlet {

    /**
     * Processes requests for both HTTP <code>GET</code> and <code>POST</code>
     * methods.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet GetThreeParams</title>");
            out.println("</head>");
            out.println("<body>");
            out.println("<h1>Servlet GetThreeParams at " + request.getContextPath() + "</h1>");
            out.println("</body>");
            out.println("</html>");
        }
    }

    /**
     * Handles the HTTP <code>GET</code> method.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
    }

    /**
     * Handles the HTTP <code>POST</code> method.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        PrintWriter out = response.getWriter();
        String docType
            = "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 \"
            + \"Transitional/EN\">\n";
        out.println(docType
            + "<HTML>\n"
            + "<HEAD><TITLE>Result Three Params</TITLE></HEAD>\n"
            + "<STYLE>\n"
            + "body {\n"
            + "background-color: pink\n"
            + "}"
            + "h1 {\n"
            + "text-align: center\n"
            + "}"
            + "</STYLE>\n"
            + "<BODY>\n"
            + "<H1>Reading Three Request Parameters</H1>\n"
            + "<UL>\n"
            + " <LI><B>param1</B>: "
            + request.getParameter("1st") + "\n"
            + " <LI><B>param2</B>: "
            + request.getParameter("2nd") + "\n"
            + " <LI><B>param3</B>: "
            + request.getParameter("3rd") + "\n"
            + "</UL>\n"
            + "</BODY></HTML>");
        }

    /**
     * Returns a short description of the servlet.
     *
     * @return a String containing servlet description
     */
    @Override
    public String getServletInfo() {
        return "Short description";
    }
}

```

Exercise 2: