

Basic servlet

```
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 HelloWorld extends HttpServlet {

    private String message;

    @Override
    public void init() throws ServletException {
        message = "Java Servlet Hello World";
    }

    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 HelloWorld</title>");
            // out.println("</head>");
            // out.println("<body>");
            out.println("<h1>" + message + "<h1>");//Servlet HelloWorld at " + request.getContextPath() +
            "</h1>");
            // out.println("</body>");
            // out.println("</html>");
        }
    }

}
```

Servlet forms (html and servlet)

Index.html

```
<!DOCTYPE html>
<!--
To change this license header, choose License Headers in Project Properties.
To change this template file, choose Tools | Templates
and open the template in the editor.
-->
<html>
  <head>
    <title>TODO supply a title</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <form action="HelloForm" method="post">
      Book name<input type="text" name="firstname" />
      Author name<input type="text" name="lastname" />
      <input type="submit" value="Display">
    </form>
  </body>
</html>
```

Servlet code

```
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 HelloForm extends HttpServlet {

    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(
                "<html>\n" +
                "  <head><title>" + "title" + "</title></head>\n" +
                "  <body bgcolor = \"#f0f0f0\">\n" +
                "    <h1 align = \"center\">" + "title" + "</h1>\n" +
                "    <ul>\n" +
```

```

        " <li><b>First Name</b>: "
        + request.getParameter("firstname") + "\n" +
        " <li><b>Last Name</b>: "
        + request.getParameter("lastname") + "\n" +
        "</ul>\n" +
        "</body>" +
        "</html>"

    );

}
}
}

```

Servlet Database code

Simple select query servlet DB code

```

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class BookDB extends HttpServlet {

    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. */
            String connectionURL = "jdbc:derby://localhost:1527/newIWP";
            try {
                Connection conn = DriverManager.getConnection(connectionURL, "arun", "arun");
                out.println("Connect successfully ! ");
                String sql = "SELECT * FROM BOOK";
                Statement st = conn.createStatement();
                ResultSet rs=null;
                rs=st.executeQuery(sql);
                while(rs.next()){
                    out.println(rs.getString("AUTHORNAME"));
                }
            } catch (SQLException e) {
                out.println(e.getMessage());
            }
        }
    }
}

```

```

        out.println(rs.getInt("ISSN"));
        out.println(rs.getString("TITLE"));
    }
rs.close(); st.close(); conn.close();
} catch (SQLException ex) {
    out.println("Connect failed ! ");
}
}
}
}

```

Simple insert query from html form through servlet DB code

Html

```

<!DOCTYPE html>
<!--
To change this license header, choose License Headers in Project Properties.
To change this template file, choose Tools | Templates
and open the template in the editor.
-->
<html>
  <head>
    <title>TODO supply a title</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <form action="HelloForm" method="post">
      Book name<input type="text" name="firstname" />
      Author name<input type="text" name="lastname" />
      <input type="submit" value="add new name">
    </form>
  </body>
</html>

```

servlet

```

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import javax.servlet.ServletException;

```

```

import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class HelloForm extends HttpServlet {

    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {

            /* _____ DB Code _____ */

String connectionURL = "jdbc:derby://localhost:1527/newIWP";
try {
    Connection conn = DriverManager.getConnection(connectionURL, "arun", "arun");
    // out.println("Connect successfully ! ");
    String fn=request.getParameter("firstname");
    String ln=request.getParameter("lastname");

    String sql = "insert into name values (?,?)";
    PreparedStatement ps=conn.prepareStatement(sql);
    ps.setString(1,fn);
    ps.setString(2,ln);
    //ResultSet rs=null;
    ps.executeUpdate();

    String sql1 = "SELECT * FROM name";
    Statement st = conn.createStatement();
    ResultSet rs=null;
    rs=st.executeQuery(sql1);
        while(rs.next()){
            out.println(rs.getString("firstname"));
            out.println(rs.getString("lastname"));
        }
    rs.close(); st.close(); conn.close();
} catch (SQLException ex) {
    out.println("Connect failed ! "+ex);
}

            /* _____ db code ends _____ */

        }
    }
}

```

}

}