**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>

<!--

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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"));

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>

<!--

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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("firstname");

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\_\_\_\_\_\_\_\_\_\_\_\*/

}

}

}