Lab.3 :

Write an application using GUI for registration. In first form user will enter the data for registration like (Name, Birthdate, Email_id, Phone_No). On clicking on submit button data will be inserted into database and user will be redirected to another form. In this form data will be selected from database and displayed in proper format.

Index.html

```html
<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>RegistrationNew</title>

</head>

<body>

        <form action="/Practical3/Servlet_1" method="post">

                <input type="text" name="userName" placeholder="Enter Name" maxlength="15"></br>

                <input type="text" name="birthDate" placeholder="DOB" maxlength="10"></br>

                <input type="text" name="emailId" placeholder="Email Id" maxlength="15"></br>

                <input type="text" name="contactNo" placeholder="Contact No." maxlength="10"></br>

                <input type="submit" value="Register">

                <input type="reset" value="Cancle">

        </form>

</body>

</html>
```

servlet1:

```java
import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;
```

```java
import java.sql.DriverManager;

import java.sql.SQLException;

import java.sql.Statement;


import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;


/**
 * Servlet implementation class Servlet_1
 */
@WebServlet("/Servlet_1")
public class Servlet_1 extends HttpServlet {
        private static final long serialVersionUID = 1L;


    /**
     * @see HttpServlet#HttpServlet()
     */
    public Servlet_1() {
        super();
        // TODO Auto-generated constructor stub
    }


        /**
         * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
         */
        protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
                // TODO Auto-generated method stub
```

```java
                //response.getWriter().append("Served at: ").append(request.getContextPath());

                //process(request, response);

        }


        /**
         * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
         */
        protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

                // TODO Auto-generated method stub

                //doGet(request, response);

                process(request, response);

        }

        void process(HttpServletRequest request,HttpServletResponse response) throws ServletException,IOException

        {

                String userName= request.getParameter("userName");

                String birthDate= request.getParameter("birthDate");

                String emailId= request.getParameter("emailId");

                String contactNo = request.getParameter("contactNo");


                PrintWriter out = response.getWriter();

                try

                {

                        DriverManager.registerDriver(new com.mysql.jdbc.Driver());

                        Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/ajp","ajp","ajp");

                        Statement stm = con.createStatement();

                        String query = "insert into user value('"+userName+"','"+birthDate+"','"+emailId+"','"+contactNo+"')";

                        if (stm.executeUpdate(query)>0) {
```

```java
                            response.sendRedirect("/Practical3/Servlet_2");
                    }
                    else {
                            out.println("<font color='#e00'>Unable to Enter
Data</font>");
                    }
                    stm.close();
                    con.close();
            }
            catch (SQLException e) {
                    // TODO: handle exception
                    out.println("<font color='#e00'>Errore:"+e.getMessage()+"</font>");
            }
    }

}
```

Servlet2:

```java
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;
import java.sql.SQLException;
import java.sql.Statement;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
```

```java
import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;


/**
 * Servlet implementation class Servlet_2
 */
@WebServlet("/Servlet_2")
public class Servlet_2 extends HttpServlet {
	private static final long serialVersionUID = 1L;

	/**
	 * @see HttpServlet#HttpServlet()
	 */
	public Servlet_2() {
		super();
		// TODO Auto-generated constructor stub
	}

	/**
	 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
	 */
	protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
		// TODO Auto-generated method stub
		//response.getWriter().append("Served at: ").append(request.getContextPath());
		process(request,response);
	}

	/**
```

```java
	 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
	 */
	protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
		// TODO Auto-generated method stub
		//doGet(request, response);
		process(request,response);
	}
	void process(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException
	{
		response.setContentType("text/html");
		PrintWriter out = response.getWriter();
		try
		{
			DriverManager.registerDriver(new com.mysql.jdbc.Driver());
			Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/ajp","ajp","ajp");
			Statement stm = con.createStatement();
			ResultSet rs = stm.executeQuery("Select * From user");
			ResultSetMetaData rsmd = (ResultSetMetaData)rs.getMetaData();
			out.println("<a href='/Practical3/'>Add New User !</a>");
			out.println("<table align='center' border=2>");
			out.println("<tr>");
			for(int i=1;i<=rsmd.getColumnCount();i++)

			{

out.println("<th>"+rsmd.getColumnName(i).toUpperCase()+"</th>");
			}
			out.println("</tr>");
			while (rs.next()) {
```

```java
                            out.println("<tr>");

                            out.println("<td>"+rs.getString(1)+"</td>");

                            out.println("<td>"+rs.getString(2)+"</td>");

                            out.println("<td>"+rs.getString(3)+"</td>");

                            out.println("<td>"+rs.getString(4)+"</td>");

                            out.println("</tr>");

                    }

                    out.println("</table>");

                    rs.close();

                    stm.close();

                    con.close();

            }

            catch (SQLException e) {

                    // TODO: handle exception

                    out.println(e.getMessage());

            }

        }

}
```