A. Procedure to run jsp jdbc mysql :

1. Download jdk 8u022 https://www.oracle.com/in/java/technologies/javase/javase8-archive-downloads.html makes two files jdk and jre in Program files
2. Download mysql connector jar file from oracle platform independent
3. Keep the jar file in jre/lib/ext/ and jdk/lib/
4. Configure environment variables in advanced settings of windows :
   Path: C:\Program Files\Java\jdk1.8.0_201\bin
   JAVA_HOME: C:\Program Files\Java\jdk1.8.0_201
   JRE_HOME: C:\Program Files\Java\jre1.8.0_202
   CATALINA_HOME: C:\xampp\tomcat\bin
   CLASSPATH: .; C:\xampp\tomcat\bin;.;
5. Keep the file to be run in tomcat/webapps/
6. Open XAMPP control panel and config the tomcat and start the admin.
7. Run MySQL on phpMyAdmin and create a table emp under test database and add some data to it.
8. Run the program.

Program:

Inrecord.jsp

```
<html>

<head>

    <style>

        #forms{

            background-color: #abd085;

            font-family: 'Verdana',monospace;

            padding: 146px;

            border: 5px solid;

            text-align: center;

            margin: 34px;

            border-radius: 15px;

            border-color: #26a69a;

        }

    </style>

</head>

<body>

    <h1 align= 'center' style="{font-color:#26a69a; font-family: 'Verdana',monospace;"> St.
Xavier's College</h1>
```

```
<form id='forms' method="post">

<table cellspacing="5px">

<tr>

<td>Enter the name</td>

<td>:<input type="text" name="name1" id="name1"> </td>

</tr>

<tr>

<td>Enter the email address</td>

<td>:<input type="text" name="email1" id="email1"></td>

</tr>

<tr>

<td colspan="2"><input type="submit"></td>

</tr>

</table>

</form>

<%@ page import ="java.sql.*" %>

<%@ page import ="javax.sql.*" %>

<%! Connection connection = null;

        Statement stmt = null;

%>

<% if(request.getParameter("name1")!=null && request.getParameter("email1")!=null){

                Class.forName("com.mysql.jdbc.Driver");

                connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root", "");

                stmt = connection.createStatement();

                String cmd = "INSERT INTO `user` (`Name`, `Email`) VALUES
('"+request.getParameter("name1")+"', '"+request.getParameter("email1")+"');";

                stmt.executeUpdate(cmd);

                out.println("Query executed successfully");

 }

%>

</body>
```

</html>

B. JAVA AWT SWING JDBC

```java
import java.sql.*;
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import java.io.*;

public class addData extends JFrame implements ActionListener  {

    JTextField id;
    JTextField name;
    JTextField age;
    JButton add;
    JButton addnew;
    JPanel p;
    static ResultSet res;
    static Connection conn;
    static Statement stat;


    public addData()  {
    super("Our Application");
    Container c = getContentPane();
    c.setLayout(new GridLayout(5,1));
    id = new JTextField(10);
    name = new JTextField(20);
    age = new JTextField(3);
    add = new JButton("add");

p = new JPanel();
    c.add(new JLabel("Customer ID",JLabel.CENTER));
    c.add(id);
c.add(new JLabel("Customer Name",JLabel.CENTER));
    c.add(name);
    c.add(new JLabel("Customer Email",JLabel.CENTER));
    c.add(age);
    c.add(p);
    p.add(add);
add.addActionListener(this);
pack();
    setVisible(true);
    addWindowListener(new WIN());


    }
```

```java
        public static void main(String args[])   {
        addData d = new addData();
        try  {
    Class.forName ("com.mysql.jdbc.Driver");

        conn= DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root","");
//dsn:Data Source Name
        stat= conn.createStatement();

        }

        catch(Exception e)   {
        System.out.println("Error" +e);
        }
        //d.showRecord(res);
        }

        public void actionPerformed(ActionEvent e)  {
        if(e.getSource() == add)   {
        try  {
     String id2 = id.getText();
     String name2 = name.getText();
     String age2 = age.getText();
        int i= stat.executeUpdate("insert into user values('"+name2+"','"+age2+"')");
        }
        catch(Exception ee) {}

        }
     }



        //Inner class WIN implemented
        class WIN extends WindowAdapter  {
         public void windowClosing(WindowEvent w)  {
        JOptionPane jop = new JOptionPane();
        jop.showMessageDialog(null,"Database","Thanks",JOptionPane.QUESTION_MESSAG
E);

        }

        } //end of the class

        }
```

C. SERVLET :