

## Week 13

**Develop a Java application to establish a JDBC connection, create a table student with properties name, register number, mark1, mark2, mark3. Insert the values into the table by using the java and display the information of the students at front end.**

Source code:

```
Import javax.swing.*;
```

```
Import java.sql.*;
```

```
Class StudentForm extends JFrame
```

```
{
```

```
JLabel l1,l2,l3,l4,l5,l6,l7;
```

```
JTextField t1,t2,t3,t4,t5,t6,t7;
```

```
JButton b1,b2;
```

```
Connection con;
```

```
PreparedStatement insert;
```

```
PreparedStatement update;
```

```
PreparedStatement delet;
```

```
PreparedStatement select;
```

```
StudentForm()
```

```
{
```

```
setSize(355,300);
```

```
setLocation(100,100);
```

```
Container c=getContentPane();
```

```
Title=new JLabel("Student Details");
```

```
Title.setFont(new Font("Dialog",Font.BOLD,15));
```

```
l1=new JLabel("Register No");
```

```
l2=new JLabel("Student Name");
```

```
l3=new JLabel("Marks1");
l4=new JLabel("Marks2");
l5=new JLabel("Marks3");
t1=new JTextField(10);
t2=new JTextField(10);
t3=new JTextField(10);
t4=new JTextField(10);
t5=new JTextField(10);
b1=new JButton("Insert");
b2=new JButton("Display");
c.setLayout(null);
title.setBounds(60,10,160,20);
c.add(title);
l1.setBounds(40,40,50,20);
c.add(l1);
t1.setBounds(95,40,108,20);
c.add(t1);
l2.setBounds(40,70,50,20);
c.add(l2);
t2.setBounds(95,70,108,20);
c.add(t2);
l3.setBounds(40,100,50,20);
c.add(l3);
t3.setBounds(95,100,108,20);
c.add(t3);
```

```

b1.setBounds(10,140,65,40);

c.add(b1);

b2.setBounds(77,140,65,40);

c.add(b2);

//b3.setBounds(144,140,65,40);

//c.add(b3);

//b4.setBounds(211,140,65,40);

//c.add(b4);

Info=new Label("Getting connected to the database");

Info.setFont(new Font("Dialog",Font.BOLD,15));

Info.setBounds(20,190,330,30);

c.add(info);

b1.addActionListener(new InsertListener());

b2.addActionListener(new DisplayListener());

setVisible(true);

getConnection();

}

Void getConnection()

{

try

{

Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");

String url="jdbc:odbc:student";

Con=DriverManager.getConnection(url,"scott","tiger");

Info.setText("Connection is established with the database");

```

```

insertps=con.prepareStatement("Insert into student values(?,?,?,?)");
selectps=con.prepareStatement("select * from student where studentno=?");
}
Catch(ClassNotFoundException e)
{
System.out.println("Driver class not found...");
System.out.println(e);
}
Catch(SQLException e)
{
Info.setText("Unable to get connected to the database");
}
}
Class insertListener implements ActionListener
{
Public void actionPerformed(ActionEvent e)
{
Try
{
Int sno=Integer.parseInt(t1.getText());
String name=t2.getText();
Int m1= Integer.parseInt(t3.getText());
Int m2=Integer.parseInt(t1.getText());
Int m3=Integer.parseInt(t1.getText());
Insertps.setInt(1,sno);

```

```

Inserttps.setString(2,name);

Inserttps.setInt(3,m1);

Inserttps.setInt(4,m2);

Inserttps.setInt(5,m3);

Inserttps.executeUpdate();

Info.setText("One row inserted successfully");

Inserttps.clearParameters();

T1.setText("");
T2.setText("");
T3.setText("");
T4.setText("");
T5.setText("");
}

Catch(SQLException se)
{
Info.setText("Failed to insert a record...");
}

Catch(Exception de)
{
Info.setText("enter proper data before insertion....");
}

}

}

}

Class DisplayListener implements ActionListener
{

```

```

Public void actionPerformed(ActionEvent e)
{
    Try
    {
        Int
sno=Integer.parseInt(t1.getText());

Selectps.setInt(1,sno);

Selectps.execute();

ResultSet
rs=selectps.getResultSet();

rs.next();

t2.setText(rs.getString(2));
t3.setText(""+rs.getFloat(3));

info.setText("One
row displayed successfully");

selectps.clearPameters();

    }
Catch(SQLException se)
{
    Info.setText("Failed to
show the record...");

}

Catch(Exception de)
{
    Info.setText("enter proper student no before selecting

```

```
show..”);
```

```
}
```

```
}
```

```
}
```

```
Public static void main(String args[])
```

```
{
```

```
New StudentForm();
```

```
}
```

```
}
```