# STUDENT REGISTRATION FORM

```
package connection;
public interface DBInfo{
  String DB_DR/VER="com.mysql.jdbc.Driver";
  String DB_URL="jdbc:mysql://localhost:3306/student_info";
  String DB_USER="root";
  String DB_PWD="payal";
package connection;
import java.sql. Connection,
import java.sql.DriverManager;
import java.sql.SQLException;
public class ConnectionProvider {
  public static Connection provideConnection()
    Connection con=null;
    try
      con= DriverManager.getConnection(DBInfo.DB_URL,DBInfo.DB_USER,DBInfo.DB_PWD);
      return con;
    catch(SQLException e)
      System.out.println(e);
    return con;
package guiForms;
import listeners.StudentListener;
import javax.swing.*;
import java.awt.*;
public class StudentForm {
  JPanel p;
  JLabel l;
  JButton add, update, remove, view, login, register;
  StudentListener stListener:
  public boolean isLoggedIn=false;
```

```
StudentForm()
  JFrame frame=new JFrame("Student Form");
  frame.setLayout(null);
  frame.setResizable(false);
  frame.getContentPane().setBackground(new Color(2,2,20));
  frame.setLocation(100,100);
  l=new JLabel("Select an option");
  l.setForeground(Color. white);
  l.setBounds(150,50,200,50);
  l.setFont(new Font(Font.SANS_SER/F,Font.PLA/N,20));
  frame.add(l);
  p=new JPanel();
  p.setBackground(Color.gray);
  GridBagLayout g=new GridBagLayout();
  GridBagConstraints gc=new GridBagConstraints();
  p.setLayout(g);
  p.setBounds(150,100,200,200);
  stListener=new StudentListener();
  add=new JButton("Add Student");
  add.setBackground(Color.orange);
  add.addActionListener(stListener);
  update=new JButton("Update Details");
  update.setBackground(Color.orange);
  update.addActionListener(stListener);
  remove=new JButton("Remove Student");
  remove.setBackground(Color.orange);
  remove.addActionListener(stListener);
  view=new JButton("View Details");
  view.setBackground(Color.orange);
  view.addActionListener(stListener);
  Insets i=new Insets(5,5,5,5);
  gc.gridx=30;
  gc.insets=i;
  gc.gridy=30; p.add(add,gc);
  gc.gridy=40; p.add(update,gc);
  gc.gridy=50; p.add(remove,gc);
  gc.gridy=60; p.add(view,gc);
  frame.add(p);
  login=new JButton("Login");
  login.addActionListener(stListener);
  login.setBackground(Color.red);
  login.setForeground(Color. white);
```

```
login.setBounds(150,330,80,40);
    register=new JButton("Register");
    register.addActionListener(stListener);
    register.setBackground(Color.BLUE);
    register.setForeground(Color. white);
    register.setBounds(250,330,100,40);
    frame.add(login); frame.add(register);
    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    frame.setVisible(true);
    frame .setSize(500,500);
  public static void main(String[] args) {
    new StudentForm();
package guiForms;
import listeners.LoginListener;
import listeners. Student Listener;
import javax.swing.*;
import java.awt.*;
public class LoginForm {
  public JLabel id,pwd;
  public JTextField tfl,tf2;
  public JButton login, cancel;
  StudentListener stListener:
  public boolean isValidUser=false;
  public LoginForm(StudentListener /)
    this.stListener=/,
    JFrame frame=new JFrame("Login Form");
    frame.setResizable(false);
    frame.getContentPane().setBackground(new Color(2,2,20));
    frame.setLocation(150,150);
    frame.setSize(350,350);
    GridBagLayout g=new GridBagLayout();
    GridBagConstraints gc=new GridBagConstraints();
    frame.setLayout(g);
    id=new JLabel("User ID
    id.setForeground(Color.white);
    pwd=new JLabel("Password :");
    pwd.setForeground(Color. white);
    tf1=new JTextField(15);
    tfl.setBackground(Color.gray);tfl.setFont(new Font(Font.DIALOG,Font.BOLD,15));
    tf2=new JTextField(15);
```

```
tf2.setBackground(Color.gray);tf2.setFont(new Font(Font.DIALOGFont.BOLD,15));
    login=new JButton("Login");
    login.addActionListener(new LoginListener(this,stListener));
    login.setBackground(Color.blue);
    login.setForeground(Color. white);
    Insets i=new Insets(10,10,10,10);
    gc.insets=i;
    gc.gridx=0;gc.gridy=0; frame.add(id,gc);
    gc.gridx=0;gc.gridy=1; frame.add(pwd,gc);
    gc.fill=GridBagConstraints.HORIZONTAL;
    gc.gridx=1;gc.gridy=0; frame.add(tfl,gc);
    gc.gridx=1;gc.gridy=1; frame.add(tf2,gc);
    gc.gridwidth=2;gc.gridx=0;gc.gridy=2; frame.add(login,gc);
    //gc.gridx=1;gc.gridy=2; frame.add(cancel,gc);
    frame.setVisible(true);
    frame.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
package guiForms;
import listeners.RegisterListener;
import javax.swing.*;
import java.awt.*;
public class RegisterForm {
  public JLabel fname, lname, pwd;
  public JTextField tf1,tf2,tf3;
  public JButton register;
  public RegisterForm()
    JFrame frame=new JFrame("Login Form");
    frame.setResizable(false);
    frame.getContentPane().setBackground(new Color(2,2,20));
    frame.setLocation(150,150);
    frame.setSize(400,400);
    GridBagLayout g=new GridBagLayout();
    GridBagConstraints gc=new GridBagConstraints();
    frame.setLayout(g);
    fname=new JLabel("First Name:");
    fname.setForeground(Color.white);
    lname=new JLabel("Last Name:");
    lname.setForeground(Color.white);
    pwd=new JLabel("Password");
```

```
pwd.setForeground(Color.white);
    tf1=new JTextField(15);
    tfl.setBackground(Color.gray);tfl.setFont(new Font(Font.DIALOG,Font.BOLD,15));
    tf2=new JTextField(15);
    tf2.setBackground(Color.gray);tf2.setFont(new Font(Font.DIALOG,Font.BOLD,15));
    tf3=new JTextField(15);
    tf3.setBackground(Color.gray);tf3.setFont(new Font(Font.DIALOG,Font.BOLD,15));
    register=new JButton("Register");
    register.addActionListener(new RegisterListener(this));
    register.setBackground(Color.blue);
    register.setForeground(Color.white);
    Insets i=new Insets(10,10,10,10);
    qc.insets=i:
    gc.fill=GridBagConstraints.HORIZONTAL;
    gc.gridx=0;gc.gridy=0; frame.add(fname,gc);
    gc.gridx=0;gc.gridy=1; frame.add(lname,gc);
    gc.gridx=0;gc.gridy=2; frame.add(pwd,gc);
    gc.gridx=1;gc.gridy=0; frame.add(tfl,gc);
    gc.gridx=1;gc.gridy=1; frame.add(tf2,gc);
    gc.gridx=1;gc.gridy=2; frame.add(tf3,gc);
    gc.gridwidth=2;
    gc.gridx=0;gc.gridy=3; frame.add(register,gc);
    frame.setVisible(true);
    frame.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
package guiForms;
import listeners. AddListener;
import javax.swing.*:
import java.awt.*;
public class AddForm {
  public JLabel name, std, section, dob, address, mobile;
  public JTextField tf1,tf2,tf3,tf4,tf5;
  public JTextArea ta;
  public JButton add;
  public AddForm()
    JFrame frame=new JFrame("Add Student"):
    GridBagLayout g=new GridBagLayout();
    GridBagConstraints gc=new GridBagConstraints();
    frame.setLayout(g);
```

```
frame.setResizable(false);
frame.getContentPane().setBackground(new Color(2,2,20));
frame.setLocation(150,150);
Insets i=new Insets(5,5,5,5);
gc.insets=i;
gc.fill=GridBagConstraints.HORIZONTAL;
name=new JLabel("Name",JLabel.LEFT);
name.setForeground(Color.white);
std=new JLabel("Class", JLabel.LEFT);
std.setForeground(Color.white);
section=new JLabel("Section", JLabel.LEFT);
section.setForeground(Color.white);
dob=new JLabel("Date of Birth", JLabel.LEFT);
dob.setForeground(Color.white);
address=new JLabel("Address",JLabel.LEFT);
address.setForeground(Color.white);
mobile=new JLabel("Mobile No.", JLabel. LEFT);
mobile.setForeground(Color.white);
gc.gridx=0;
gc.gridy=O;frame.add(name,gc);
gc.gridy=1;frame.add(std,gc);
gc.gridy=2;frame.add(section,gc);
gc.gridy=3;frame.add(dob,gc);
gc.gridy=4;frame.add(mobile,gc);
gc.gridy=5;frame.add(address,gc);
tf1=new JTextField(15);
tfl.setBackground(Color.gray);tfl.setFont(new Font(Font.DIALOG,Font.BOLD,15));
tf2=new JTextField(15);
tf2.setBackground(Color.gray);tf2.setFont(new Font(Font.DIALOG,Font.BOLD,15));
tf3=new JTextField(15);
tf3.setBackground(Color.gray);tf3.setFont(new Font(Font.DIALOG,Font.BOLD,15));
tf4=new JTextField(15);
tf4.setBackground(Color.gray);tf4.setFont(new Font(Font.DIALOG,Font.BOLD,15));
tf5=new JTextField(15);
tf5.setBackground(Color.gray);tf5.setFont(new Font(Font.DIALOG,Font.BOLD,15));
gc.gridx=1;
gc.gridy=0;frame.add(tfl,gc);
ga.gridy=1;frame.add(tf2,ga);
gc.gridy=2;frame.add(tf3,gc);
gc.gridy=3;frame.add(tf4,gc);
gc.gridy=4;frame.add(tf5,gc);
ta=new JTextArea(5.15):
ta.setBackground(Color.gray);ta.setFont(new Font(Font.DIALOG,Font.BOLD,15));
gc.gridwidth=2;
qc.gridx=0:gc.gridy=6:
frame.add(ta,gc);
add=new JButton("Add Student");
add.addActionListener(new AddListener(this));
add.setBackground(Color.BLUE);add.setForeground(Color.white);
```

```
gc.gridx=0;gc.gridy=7;
    frame.add(add,gc);
    frame.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
    frame.setSize(500,500);
    frame.setVisible(true);
package guiForms;
import listeners.RemoveListener;
import javax.swing.*;
import java.awt.*;
public class RemoveForm
  public JLabel id;
  public JTextField tf1;
  public JButton remove;
  public RemoveForm()
    JFrame frame=new JFrame("Remove Student");
    GridBagLayout g=new GridBagLayout();
    GridBagConstraints gc=new GridBagConstraints();
    frame.setLayout(g);
    frame.setResizable(false);
    frame.getContentPane().setBackground(new Color(2,2,20));
    frame.setLocation(150,150);
    Insets i=new Insets(10,10,10,10);
    ac.insets=i:
    gc.fill=GridBagConstraints.HORIZONTAL;
    id=new JLabel("Student Id",JLabel.LEFT);
    id.setForeground(Color.white);
    gc.gridx=0;gc.gridy=0;frame.add(id,gc);
    tf1=new JTextField(15);
    tfl.setBackground(Color.gray);tfl.setFont(new Font(Font.DIALOG,Font.BOLD,15));
    gc.gridx=1;gc.gridy=0;frame.add(tf1,gc);
    remove=new JButton("Remove Student");
    remove.addActionListener(new RemoveListener(this));
    remove.setBackground(Color.BLUE);remove.setForeground(Color.white);
    gc.gridx=0;gc.gridy=1;gc.gridwidth=2;frame.add(remove,gc);
    frame.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
    frame.setVisible(true);
    frame .setSize(300,300);
```

```
}
package guiForms;
import listeners. Update Listener;
import javax.swing.*;
import java.awt.*;
public class UpdateForm {
  public JLabel id, cls, sec, db, adr, mob;
  public JTextField tfl,tf2,tf3,tf4,tf5,tf6;
  public JButton updateStd,updateSection,updateDOB,updateAdr,updateMob;
  public UpdateForm()
    JFrame frame=new JFrame("Update Details");
    frame.setLayout(null);
    frame.setResizable(false);
    frame.getContentPane().setBackground(new Color(2,2,20));
    frame.setLocation(150,150);
    id=new JLabel("Student ID");
    id.setForeground(Color.white);
    id.setBounds(80,50,80,30);
    frame.add(id);
    tfl=new JTextField();
    tfl.setBackground(Color.gray);tfl.setFont(new Font(Font.DIALOG,Font.BOLD,15));
    tfl.setBounds(180,50,150,25);
    frame.add(tf1);
    JTabbedPane pane=new JTabbedPane();
    pane.setFont(new Font(Font.DIALOG,Font.BOLD,15));
    pane.setBackground(new Color(10,100,250));
    pane.setForeground(Color.black);
    pane.setBounds(70,100,360,250);
    frame.add(pane);
    Insets i=new Insets(10,10,10,10);
    JPanel std=new JPanel();
    std.setBackground(new Color(2,2,20));
    GridBagLayout gl=new GridBagLayout();
    GridBagConstraints gcl=new GridBagConstraints();
    std.setLayout(g1);
    gcl.insets=i;gcl.fill=GridBagConstraints.HORIZONTAL;
    cls=new JLabel("Class");cls.setForeground(Color.white);gcl.gridx=0;gcl.gridy=0;std.add(cls.gcl);
    tf2=new JTextField(15);tf2.setBackground(Color.gray);tf2.setFont(new
Font(Font.DIALOG,Font.BOLD,15));;gcl.gridx=1;std.add(tf2,gcl);
    updateStd=new JButton("Update
```

```
Class");updateStd.setBackground(Color.blue);updateStd.setForeground(Color.white);gcl.gridx=0;gcl.gridy=1;gcl.gridwidt
h=2;std.add(updateStd,gcl);
    updateStd.addActionListener(new UpdateListener(this));
    pane.addTab("Class",std);
    JPanel section=new JPanel():
    section.setBackground(new Color(2,2,20));
    GridBagLayout g2=new GridBagLayout();
    GridBagConstraints gc2=new GridBagConstraints();
    section.setLayout(q2);
    gc2.insets=i;gc2.fill=GridBagConstraints.HORIZONTAL;
    sec=new JLabel("Section");sec.setForeground(Color.white);gc2.gridx=0;gc2.gridy=0;section.add(sec.gc2);
    tf3=new JTextField(15);tf3.setBackground(Color.gray);tf3.setFont(new
Font(Font.DIALOG,Font.BOLD,I5));gc2.gridx=1;section.add(tf3,gc2);
    updateSection=new JButton("Update
Section");updateSection.setBackground(Color.blue);updateSection.setForeground(Color.white);gc2.gridy=1;
gc2.gridwidth=2;section.add(updateSection,gc2);
    updateSection.addActionListener(new UpdateListener(this));
    pane.addTab("Section", section);
    JPanel dob=new JPanel():
    dob.setBackground(new Color(2,2,20));
    GridBagLayout g3=new GridBagLayout();
    GridBagConstraints gc3=new GridBagConstraints();
    dob.setLayout(g3);
    gc3.insets=i;gc3.fill=GridBagConstraints.HORIZONTAL;
    db=new JLabel("Date of Birth");db.setForeground(Color.white);gc3.gridx=0;gc3.gridy=0;dob.add(db.gc3);
    tf4=new JTextField(15);tf4.setBackground(Color.gray);tf4.setFont(new
Font(Font.DIALOG,Font.BOLD,15));gc3.gridx=1;dob.add(tf4,gc3);
    updateDOB=new JButton("Update
DOB");updateDOB.setBackground(Color.blue);updateDOB.setForeground(Color.white);qc3.gridy=0;qc3.gridy=1;qc3.gridyi
dth=2;dob.add(updateDOB,gc3);
    updateDOB.addActionListener(new UpdateListener(this));
    pane.addTab("DOB",dob);
    JPanel address=new JPanel();
    address.setBackground(new Color(2,2,20));
    GridBagLayout g4=new GridBagLayout();
    GridBagConstraints gc4=new GridBagConstraints();
    address.setLavout(q4):
    gc4.insets=i;gc4.fill=GridBagConstraints.HORIZONTAL;
    adr=new JLabel("Address");adr.setForeground(Color.white);gc4.gridx=0;gc4.gridy=0;address.add(adr,gc4);
    tf5=new JTextField(15);tf5.setBackground(Color.gray);tf5.setFont(new
Font(Font.DIALOG,Font.BOLD,15));gc4.gridx=1;address.add(tf5,gc4);
    updateAdr=new JButton("Update
Address");updateAdr.setBackground(Color.blue);updateAdr.setForeground(Color.white);qc4.gridx=0;qc4.gridy=1;qc4.gri
dwidth=2;address.add(updateAdr,gc4);
    updateAdr.addActionListener(new UpdateListener(this));
    pane.addTab("Address",address);
    JPanel mobile=new JPanel();
    mobile.setBackground(new Color(2,2,20));
    GridBagLayout g5=new GridBagLayout();
    GridBagConstraints gc5=new GridBagConstraints();
    mobile.setLayout(q5);
```

```
gc5.insets=i;gc5.fill=GridBagConstraints.HORIZONTAL;
    mob=new JLabel("Mobile No.");mob.setForeground(Color.white);gc5.gridx=0;gc5.gridy=0;mobile.add(mob,gc5);
    tf6=new JTextField(15);tf6.setBackground(Color.gray);tf6.setFont(new
Font(Font.DIALOG,Font.BOLD,15));gc5.gridx=1;mobile.add(tf6,gc5);
    updateMob=new JButton("Update
Contact");updateMob.setBackground(Color.blue);updateMob.setForeground(Color.white);qc5.gridx=0;qc5.gridy=1;qc5.gri
dwidth=2;mobile.add(updateMob,gc5);
    updateMob.addActionListener(new UpdateListener(this));
    pane.addTab("Mobile",mobile);
    frame.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
    frame.setVisible(true);
    frame.setSize(500,450);
package quiForms;
import listeners. View Listener;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;
import java.awt.*;
public class ViewForm {
  public JLabel id;
  public JTextField tf1;
  public JButton view, view All;
  public DefaultTableModel model;
  public JTable table;
  public ViewForm()
    JFrame frame=new JFrame("View Details");
    frame.setLavout(null):
    frame.setResizable(false);
    frame.getContentPane().setBackground(new Color(2,2,20));
    frame.setLocation(150,150);
    GridBagLayout g=new GridBagLayout();
    GridBagConstraints gc=new GridBagConstraints();
    JPanel p=new JPanel();
    p.setBounds(50,50,400,100);
    p.setLayout(g);p.setBackground(new Color(2,2,20));
    frame.add(p);
    Insets i=new Insets(10,10,10,10);
    gc.insets=i;gc.fill=GridBagConstraints.HORIZONTAL;
    id=new JLabel("Student id",JLabel.LEFT);
    id.setForeground(Color.white);
    gc.gridx=0;gc.gridy=0;p.add(id,gc);
```

```
tf1=new JTextField(15);
    tfl.setBackground(Color.gray);tfl.setFont(new Font(Font.DIALOG,Font.BOLD,I5));
    gc.gridx=1;p.add(tf1,gc);
    view=new JButton("View Details");
    view.addActionListener(new ViewListener(this));
    view.setBackground(Color.BLUE); view.setForeground(Color.white);
    gc.gridx=0;gc.gridy=1;p.add(view,gc);
    viewAll=new JButton("View all Details");
    viewAll.addActionListener(new ViewListener(this));
    gc.gridx=1;gc.gridy=1;p.add(viewAll,gc);
    String[] cols={"ID","Name","Class","Section","DOB","Mobile","Permanent Address"};
    model=new DefaultTableModel();
    model.setColumnIdentifiers(cols);
    table=new JTable(model);
    table.setGridColor(Color.black);
    table.setForeground(Color.white);
    table.setBackground(Color.darkGray);
    JScrollPane pane=new JScrollPane(table);
    pane.setBounds(50,200,400,200);
    frame.add(pane);
    frame.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
    frame.setVisible(true):
    frame .setSize(500,500);
}
package listeners;
import quiForms.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
public class StudentListener implements ActionListener {
  boolean isLoggedIn=false;
  @Override
  public void actionPerformed(ActionEvent e) {
    String action=e.getActionCommand();
    if(action.equals("Login"))
      new LoginForm(this);
    else if(action.equals("Register"))
      new RegisterForm();
    else if(action.equals("Add Student"))
```

```
{
      if(isLoggedIn==false)
         new LoginForm(this);
      else
         new AddForm();
    else if(action.equals("Update Details"))
      if(isLoggedIn==false)
         new LoginForm(this);
         new UpdateForm();
    else if(action.equals("Remove Student"))
    {
      if(isLoggedIn==false)
         new LoginForm(this);
      else
         new RemoveForm();
    }
    else
      if(isLoggedIn==false)
         new LoginForm(this);
         new ViewForm();
    }
package listeners;
import beans.LoginBean;
import dao.LoginDao;
import guiForms.LoginForm;
import javax.swing.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
public class LoginListener implements ActionListener {
  LoginForm loginForm;
  StudentListener stListener;
  boolean is ValidUser;
  public LoginListener(LoginForm f,StudentListener l)
    this.loginForm=f;
    this.stListener=l:
  @Override
  public void actionPerformed(ActionEvent e) {
    String id=loginForm.tfl.getText();
    String pwd=loginForm.tf2.getText();
```

```
loginForm.tfl.setText("");
    loginForm.tf2.setText("");
    if(pwd.equals("")||id.equals(""))
      JOptionPane.showMessageDialog(null,"Please fill the details!");
    }
    else
      LoginBean l=new LoginBean(Integer.parseInt(id),pwd);
      isValidUser= LoginDao.isValidUser(l);
      if(isValidUser)
         JOptionPane.showMessageDialog(null,"You are successfully logged in!");
         stListener.isLoggedIn=true;
      else
         JOptionPane.showMessageDialog(null,"Please enter valid details!");
package listeners;
import beans.RegisterBean;
import dao.RegisterDao;
import guiForms.RegisterForm;
import javax.swing.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
public class RegisterListener implements ActionListener {
  public RegisterForm registerForm;
  public RegisterListener(RegisterForm f)
    this.registerForm =f;
  public void actionPerformed(ActionEvent e)
    String fname=registerForm.tfl.getText();
    String lname=registerForm.tf2.getText();
    String pwd=registerForm.tf3.getText();
    registerForm.tfl.setText("");
    registerForm.tf2.setText("");
registerForm.tf3.setText("");
    if(fname.equals("")||lname.equals("")||pwd.equals(""))
       JOptionPane.showMessageDialog(null,"Please enter the details!");
    else
      RegisterBean b=new RegisterBean(fname,lname,pwd);
```

```
int id= RegisterDao.registerUser(b);
      if(id!=-1)
      {
         JOptionPane.showMessageDialog(null,"Your id is: "+id);
      else
         JOptionPane.showMessageDialog(null,"Registration failed! Try Again.");
package listeners;
import beans. Add Bean;
import dao.AddDao;
import guiForms.AddForm;
import javax.swing.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
public class AddListener implements ActionListener {
  AddForm addForm;
  public AddListener(AddForm f)
    addForm=f;
  @Override
  public void actionPerformed(ActionEvent e) {
    String name=addForm.tfl.getText();
    String std=addForm.tf2.getText();
    String section=addForm.tf3.getText();
    String dob=addForm.tf4.getText();
    String mobile=addForm.tf5.getText();
    String address=addForm.ta.getText();
    addForm.tfl.setText("");
    addForm.tf2.setText("");
    addForm.tf3.setText("");
    addForm.tf4.setText("");
    addForm.tf5.setText("");
    addForm.ta.setText("");
    if(name.equals("")||std.equals("")||section.equals("")||dob.equals("")||mobile.equals("")||address.equals(""))
      JOptionPane.showMessageDialog(null,"Please fill the details");
    else
      AddBean b=new AddBean(name,Integer.parseInt(std),section,dob,mobile,address);
      int id= AddDao.addStudent(b);
      if(id!=-1)
         JOptionPane.showMessageDialog(null,"Details are submitted successfully!\nStudent id: "+id);
      else
```

```
JOptionPane.showMessageDialog(null,"Submission Failed! Try Again.");
    }
package listeners;
import dao.RemoveDao;
import guiForms.RemoveForm;
import javax.swing.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
public class RemoveListener implements ActionListener {
  RemoveForm removeForm;
  public RemoveListener(RemoveForm f)
    removeForm=f;
  @Override
  public void actionPerformed(ActionEvent e) {
    String id=removeForm.tfl.getText();
    removeForm.tfl.setText("");
    if(id.equals(""))
      JOptionPane.showMessageDialog(null,"Please enter the id!");
      boolean isRemoved= RemoveDao.removeStudent(Integer.parseInt(id));
      if(isRemoved)
        JOptionPane.showMessageDialog(null,"Removed Successfully!");
        JOptionPane.showMessageDialog(null,"Failed! Try again.");
    }
package listeners;
import dao.UpdateDao;
import guiForms.UpdateForm;
import javax.swing.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
public class UpdateListener implements ActionListener {
  UpdateForm updateForm;
  public UpdateListener(UpdateForm f)
    updateForm=f;
```

```
@Override
  public void actionPerformed(ActionEvent e) {
    String id=updateForm.tfl.getText();
    updateForm.tfl.setText("");
    String new Value="";
    String action=e.getActionCommand();
    boolean isUpdated=false;
    if(action.equals("Update Class"))
      newValue=updateForm.tf2.getText();
      updateForm.tf2.setText("");
      isUpdated = UpdateDao.updateClass(Integer.parseInt(id),newValue);
    else if(action.equals("Update Section"))
      newValue=updateForm.tf3.getText();
      updateForm.tf3.setText("");
      isUpdated = UpdateDao.updateSection(Integer.parseInt(id),newValue);
    else if(action.equals("Update DOB"))
      newValue=updateForm.tf4.getText();
      updateForm.tf4.setText("");
      isUpdated = UpdateDao.updateDOB(Integer.parseInt(id),newValue);
    else if(action.equals("Update Address"))
      newValue=updateForm.tf5.getText();
      updateForm.tf5.setText("");
      isUpdated = UpdateDao.updateAddress(Integer.parseInt(id),newValue);
    }
    else
      newValue=updateForm.tf6.getText();
      updateForm.tf6.setText("");
      isUpdated = UpdateDao.updateContact(Integer.parseInt(id),newValue);
    }
    if(isUpdated)
      JOptionPane.showMessageDialog(null,"Details are updated!");
    }
    else
      JOptionPane.showMessageDialog(null,"Updation Failed! Try Again.");
package listeners;
import dao.ViewDao;
import guiForms. ViewForm;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
```

```
public class ViewListener implements ActionListener {
  ViewForm viewForm;
  public ViewListener(ViewForm f)
    viewForm=f;
  @Override
  public void actionPerformed(ActionEvent e) {
    String id=viewForm.tfl.getText();
    viewForm.tfl.setText("");
    String action=e.getActionCommand();
    viewForm.model.setRowCount(O);
    if(action.equals("View all Details"))
      ViewDao.viewAllDetails(viewForm);
    else
      ViewDao.viewDetails(viewForm,Integer.parseInt(id));
package dao;
import beans.LoginBean;
import connection.ConnectionProvider;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
public class LoginDao {
  public static boolean is ValidUser (LoginBean b)
    boolean is Valid=false;
    Connection con=null;
    try
    {
      con= ConnectionProvider.provideConnection();
      PreparedStatement p=con.prepareStatement("select * from user where id=? and pwd=?");
      p.setInt(1,b.id);
      p.setString(2,b.pwd);
      ResultSet rs=p.executeQuery();
      if(rs.next())
         isValid=true;
    catch(SQLException e)
      System.out.println(e);
    finally {
      try
         con.close();
```

```
}
      catch (SQLException e)
         System.out.println(e);
    }
    return is Valid;
package dao;
import beans.RegisterBean;
import connection. Connection Provider;
import java.sql.*;
public class RegisterDao {
  public static int registerUser(RegisterBean b)
    int id=-1;
    Connection con=null;
    try
    {
      con= ConnectionProvider.provideConnection();
      PreparedStatement p=con.prepareStatement("insert into user(lname,fname,pwd) values(?,?,?);");
      p.setString(1,b.fname);
      p.setString(2,b.lname);
      p.setString(3,b.pwd);
      int r=p.executeUpdate();
      if(r>0)
         Statement s=con.createStatement();
         ResultSet rs=s.executeQuery("select max(id) from user;");
         rs.next();
         id=rs.getInt(1);
    catch(SQLException e)
      System.out.println(e);
    finally
      try
         con.close();
      catch (SQLException e)
         System.out.println(e);
    }
```

```
return id;
package dao;
import beans.AddBean;
import connection.ConnectionProvider;
import java.sql.*;
public class AddDao {
  public static int addStudent(AddBean b)
    int id=-1;
    Connection con=null;
    try
    {
      con= ConnectionProvider.provideConnection();
      PreparedStatement p=con.prepareStatement("insert into student(name, class, section, dob, address, mobile)
values(?,?,?,?,?);");
      p.setString(l,b.name);
      p.setInt(2,b.std);
      p.setString(3,b.section);
      p.setDate(4,Date.valueOf(b.dob));
      p.setString(5,b.address);
      p.setString(6,b.mobile);
      int r=p.executeUpdate();
      if(r>0)
         Statement s=con.createStatement();
         ResultSet rs=s.executeQuery("select max(id) from student");
         rs.next();
         id=rs.getInt(1);
    catch(SQLException e)
      System.out.println(e);
    finally {
      try
         con.close();
      catch (SQLException e) {
         System.out.println(e);
    return id;
```

```
package dao;
import connection. Connection Provider;
import java.sql. Connection,
import java.sgl. Prepared Statement.
import java.sql.SQLException;
public class RemoveDao {
public static boolean removeStudent(int id)
  boolean isRemoved = false;
  Connection con=null;
  try
    con= ConnectionProvider.provideConnection();
    PreparedStatement p=con.prepareStatement("delete from student where id=?");
    p.setInt(1,id);
    int r=p.executeUpdate();
    if(r>0)
      isRemoved=true;
  catch(SQLException e)
    System.out.println(e);
  finally {
    try{con.close();}
    catch(SQLException e) {
      System.out.println(e);
  return isRemoved;
package dao;
import connection.ConnectionProvider;
import java.sql. Connection,
import java.sql.Date;
import java.sql. Prepared Statement;
import java.sql.SQLException;
public class UpdateDao {
  public static boolean updateClass(int id,String new Value)
    boolean isClassUpdated=false;
    Connection con=null;
    try
```

```
{
    con= ConnectionProvider.provideConnection();
    PreparedStatement p=con.prepareStatement("update student set class=? where id=?;");
    p.setString(1, new Value);
    p.setInt(2,id);
    int r=p.executeUpdate();
    if(r>O)isClassUpdated=true;
  catch (SQLException e)
    System.out.println(e);
  finally {
    try{con.close();}
    catch (SQLException e) {
      System.out.println(e);
  return isClassUpdated;
public static boolean updateSection(int idString newValue)
  boolean isSectionUpdated=false;
  Connection con=null;
  try
    con= ConnectionProvider.provideConnection();
    PreparedStatement p=con.prepareStatement("update student set section=? where id=?;");
    p.setString(1, new Value);
    p.setInt(2,id);
    int r=p.executeUpdate();
    if(r>O)isSectionUpdated=true;
  }
  catch (SQLException e)
  {
    System.out.println(e);
  finally {
    try{con.close();}
    catch (SQLException e) {
      System.out.println(e);
  return isSectionUpdated;
public static boolean updateDOB(int id,String new Value)
  boolean isDOBUpdated=false;
  Connection con=null;
  try
```

```
con= ConnectionProvider.provideConnection();
    PreparedStatement p=con.prepareStatement("update student set dob=? where id=?;");
    p.setDate(1,Date. valueOf(new Value));
    p.setInt(2,id);
    int r=p.executeUpdate();
    if(r>O)isDOBUpdated=true;
  }
  catch (SQLException e)
    System.out.println(e);
  finally {
    try{con.close();}
    catch (SQLException e) {
      System.out.println(e);
 return isDOBUpdated;
public static boolean update Address (int id, String new Value)
  boolean is Address Updated = false;
  Connection con=null;
  try
    con= ConnectionProvider.provideConnection();
    PreparedStatement p=con.prepareStatement("update student set address=? where id=?;");
    p.setString(1, new Value);
    p.setInt(2,id);
    int r=p.executeUpdate();
    if(r>O)isAddressUpdated=true;
  catch (SQLException e)
    System.out.println(e);
  finally {
    try(con.close();)
    catch (SQLException e) {
      System.out.println(e);
  }
  return isAddressUpdated;
public static boolean updateContact(int id,String newValue)
  boolean isContactUpdated=false;
  Connection con=null;
  try
    con= ConnectionProvider.provideConnection();
    PreparedStatement p=con.prepareStatement("update student set mobile=? where id=?;");
```

```
p.setString(l,newValue);
      p.setInt(2,id);
      int r=p.executeUpdate();
      if(r>O)isContactUpdated=true;
    catch (SQLException e)
      System.out.println(e);
    finally {
      try{con.close();}
      catch (SQLException e) {
         System.out.println(e);
    }
    return isContactUpdated;
package dao;
import connection.ConnectionProvider;
import guiForms. ViewForm;
import java.sql.*;
public class ViewDao {
  public static void view All Details (View Form /)
    String[] data=new String[7];
     Connection con=null;
    try
      con= ConnectionProvider.provideConnection();
       Statement s=con.createStatement();
      ResultSet rs=s.executeQuery("select * from student;");
       while(rs.next())
         data[0]=rs.getInt(1)+"";
         data[1]=rs.getString(2);
         data[2]=rs.getString(3);
         data[3]=rs.getString(4);
         data[4]=rs.getString(5);
         data[5]=rs.getString(6);
         data[6]=rs.getString(7);
         f.model.addRow(data);
    catch(SQLException e)
      System.out.println(e);
```

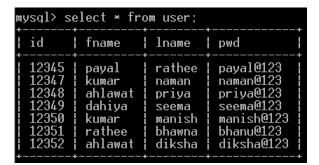
```
}
    finally {
      try{con.close();}
      catch (SQLException e){System.out.println(e);}
    }
  public static void viewDetails(ViewForm fint id)
    String[] data=new String[7];
    Connection con=null;
    try
      con= ConnectionProvider.provideConnection();
       PreparedStatement p=con.prepareStatement("select * from student where id=?;");
      p.setInt(1,ia);
      ResultSet rs=p.executeQuery();
      rs.next();
      data[0]=rs.getInt(1)+"";
      data[1]=rs.getString(2);
      data[2]=rs.getString(3);
      data[3]=rs.getString(4);
      data[4]=rs.getString(5);
      data[5]=rs.getString(6);
      data[6]=rs.getString(7);
      f.model.addRow(data);
    catch(SQLException e)
      System.out.println(e);
    }
    finally {
      try{con.close();}
      catch (SQLException e){System.out.println(e);}
 }
package beans;
public class LoginBean {
  public int id;
  public String pwd;
  public LoginBean(int id, String pwd)
    this.id=id;
    this.pwd=pwd;
package beans;
public class RegisterBean {
  public String fname;
  public String Iname;
```

```
public String pwd;
  public RegisterBean(String fname, String lname, String pwd)
    this.fname=fname,
     this.lname=lname,
     this.pwd=pwd;
package beans;
public class AddBean {
  public String name;
  public int std;
  public String section;
  public String dob;
  public String mobile;
  public String address;
  public AddBean(String name, int std, String section, String dob, String mobile, String address)
    this.name=name,
     this.std=std.
     this.section=section,
     this.dob=dob;
     this.mobile=mobile,
    this.address=address,
}
```



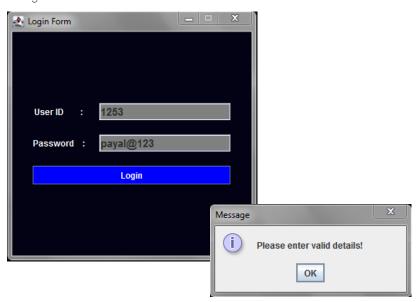
### Register as user:

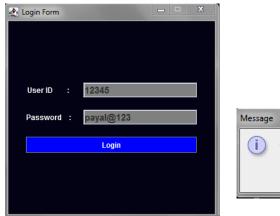






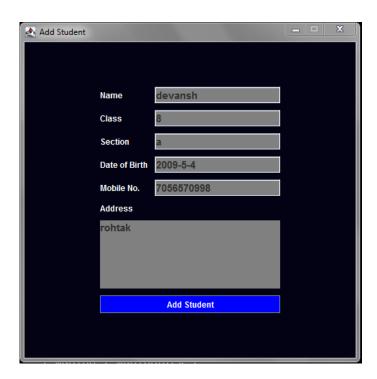
## Login:







Add Student:



Before:

mysql>	select	* from	student;			
			section	dob	address	
		8 8		2008-03-04 2008-03-05	ambala	9783462109

After:

mysql> select * from student;									
id   name	class	section	dob	address	mobile				
2   naman   8   riya   9   devansh	8 1	b	2008-03-05	ambala	9783462109   9837483282   7056570998				

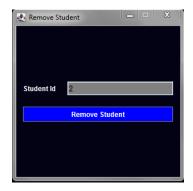
### Update Details:







#### Remove Student:





#### View Details:



