

```

import java.awt.*;
import java.applet.*;
import java.awt.event.*;

public class student extends Frame implements ActionListener
{
    String msg;
    Button b1=new Button("SAVE");
    Label l11=new Label("Student details",Label.CENTER);
    Label l1=new Label("Name:",Label.LEFT);
    Label l2=new Label("Age:",Label.LEFT);
    Label l3=new Label("Gender:",Label.LEFT);
    Label l4=new Label("Address:",Label.LEFT);
    Label l5=new Label("Course:",Label.LEFT);
    Label l6=new Label("Semester:",Label.LEFT);
    Label l7=new Label("",Label.RIGHT);
    TextField t1=new TextField();
    Choice c1=new Choice();
    CheckboxGroup cbg=new CheckboxGroup();
    Checkbox ck1=new Checkbox("Male",false,cbg);
    Checkbox ck2=new Checkbox("Female",false,cbg);
    TextArea t2=new TextArea("",180,90,TextArea.SCROLLBARS_VERTICAL_ONLY);
    Choice course=new Choice();
    Choice sem=new Choice();
    Choice age=new Choice();
public student()
{addWindowListener(new myWindowAdapter());
 setBackground(Color.red);
 setForeground(Color.black);
 setLayout(null);
 add(l11);
 add(l1);
 add(l2);
 add(l3);
 add(l4);
 add(l5);
 add(l6);
 add(l7);
 add(t1);
 add(t2);
 add(ck1);
 add(ck2);
 add(course);
 add(sem);
 add(age);
 add(b1);
 b1.addActionListener(this);
 add(b1);
 course.add("DLDA-D7C");
 course.add("ECCF-D7C");
 course.add("OOPM-D7C");
 course.add("DIS-D7C");
 course.add("DAS-D7C");
 course.add("MATHS-D7C");

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sem.add("1");
sem.add("2");
sem.add("3");
sem.add("4");
sem.add("5");
sem.add("6");
age.add("17");
age.add("18");
age.add("19");
age.add("20");
age.add("21");
l1.setBounds(25,65,90,20);
l2.setBounds(25,90,90,20);
l3.setBounds(25,120,90,20);
l4.setBounds(25,185,90,20);
l5.setBounds(25,260,90,20);
l6.setBounds(25,290,90,20);
l7.setBounds(25,260,90,20);
l11.setBounds(10,40,280,20);
t1.setBounds(120,65,170,20);
t2.setBounds(120,185,170,60);
ck1.setBounds(120,120,50,20);
ck2.setBounds(170,120,60,20);
course.setBounds(120,260,100,20);
sem.setBounds(120,290,50,20);
age.setBounds(120,90,50,20);
b1.setBounds(120,350,50,30);
}
public void paint(Graphics g)
{g.drawString(msg,200,450);}
public void actionPerformed(ActionEvent ae)
{if(ae.getActionCommand().equals("save"))
    {msg="Student details saved!";
    setForeground(Color.red); }
}
public static void main(String g[])
{student stu=new student();
stu.setSize(new Dimension(320,500));
stu.setTitle("student registration");
stu.setVisible(true);
}
}
class myWindowAdapter extends WindowAdapter
{public void windowClosing(WindowEvent we)
{
    System.exit(0);
}
}
}

```

O/P:

The image shows a software window titled "student registration". The window has a red background and contains the following elements:

- Title Bar:** Includes the text "student registration" and standard window control buttons (minimize, maximize, close).
- Section Header:** "Student details" is centered at the top of the form area.
- Form Fields:**
 - Name:** A text input field.
 - Age:** A dropdown menu showing the value "17".
 - Gender:** Two radio buttons labeled "Male" and "Female".
 - Address:** A text area with a vertical scrollbar.
 - Course:** A dropdown menu showing the value "DLDA-D7C".
 - Semester:** A dropdown menu showing the value "1".
- Action Button:** A button labeled "SAVE" is positioned at the bottom center of the form.

```

//Import statements

import java.awt.*;
import java.awt.event.*;
//Class definition
class LoginWindow extends Frame implements ActionListener
{
    //Variable declaration
    TextField tel, te2;
    Label la1, la2;
    Button bu1, bu2;
    public LoginWindow(String title)
    {
        super(title);
        // © http://students3k.com - Karthikh Venkat
        //creating components
        tel=new TextField(10);
        te2=new TextField(10);
        te2.setEchoChar('*');
        la1=new Label("User ID: ");
        la2=new Label("Password : ");
        bu1=new Button("OK");
        bu2=new Button("CANCEL");

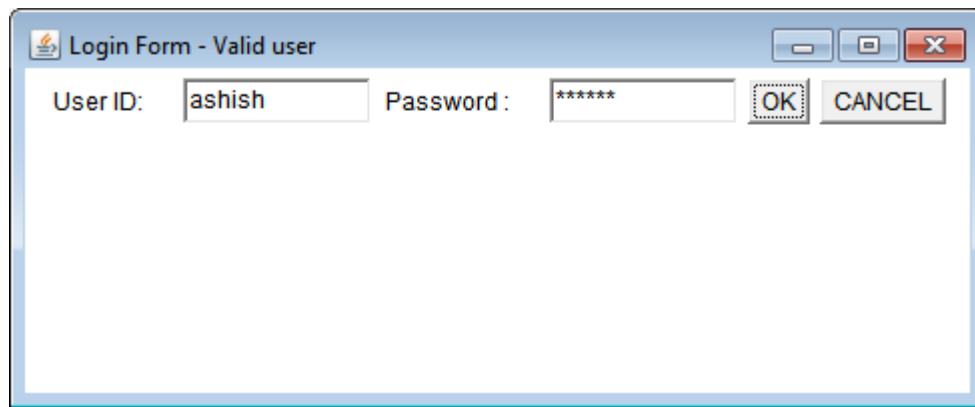
        bu1.addActionListener(this);
        bu2.addActionListener(this);
        setLayout(new FlowLayout());

        add(la1);
        add(tel);
        add(la2);
        add(te2);
        add(bu1);
        add(bu2);
        setSize(200,200);
        show();
    }
    public void actionPerformed(ActionEvent e)
    {
        if(e.getSource()==bu1)
        {
            if(tel.getText().equals("ashish") &&
te2.getText().equals("ashish"))
                setTitle("Login Form - Valid user");
            else
                setTitle("Login Form - Invalid user");
        }
        else
            System.exit(0);
    }
}

```

```
public static void main(String args[])
{
    new LoginWindow("User Login");
}
```

O/P:



The screenshot shows a Java Swing window titled "Login Form - Valid user". The window has a standard Mac OS X-style title bar with minimize, maximize, and close buttons. Inside the window, there are two text input fields. The first field is labeled "User ID:" and contains the text "ashish". The second field is labeled "Password:" and contains seven asterisks "*****". To the right of the password field are two buttons: "OK" and "CANCEL". The "OK" button is highlighted with a dashed border, indicating it is the default action.