

WEEK-19

CODE:

```
import javax.swing.JFrame;
import javax.swing.JRadioButton;
import javax.swing.JTextArea;
import javax.swing.JLabel;
import javax.swing.JMenu;
import javax.swing.JMenuBar;
import javax.swing.JOptionPane;
import javax.swing.JTextField;
import java.awt.Color;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.BorderFactory;
import javax.swing.ButtonGroup;
import javax.swing.JButton;
import javax.swing.JComboBox;
class Assignment implements ActionListener
{
    JFrame frame;
    JLabel label1;
    JLabel label2;
    JTextField field1;
    JLabel label3;
    JLabel label4;
    JLabel label5;
    JLabel label6;
    JLabel label7;
    JLabel label8;
    JLabel label9;
    JLabel label10;
    JLabel label11;
    JComboBox combobox1;
    JComboBox combobox2;
    JComboBox combobox3;
    JRadioButton button1;
    JRadioButton button2;
    ButtonGroup group;
    JTextArea text;
    JTextField field2;
    JTextField field3;
    JTextField field4;
```

```

JComboBox combobox4;
JComboBox combobox5;
JComboBox combobox6;
JButton button3;
JButton button4;
public void actionPerformed(ActionEvent obj)
{
    if((obj.getActionCommand()).equals("Submit")){
        String getName=field1.getText();
        String getMN=field2.getText();
        String getPass=field3.getText();
        String getRepass=field4.getText();
        String getAddress=text.getText();
        String getGender=" ";
        String getCombobox1=combobox1.getSelectedItem().toString();
        String getCombobox2=combobox2.getSelectedItem().toString();
        String getCombobox3=combobox3.getSelectedItem().toString();
        String getCombobox4=combobox4.getSelectedItem().toString();
        String getCombobox5=combobox5.getSelectedItem().toString();
        String getCombobox6=combobox6.getSelectedItem().toString();

        if(button1.isSelected())
        {
            getGender="Male";
        }
        else{
            getGender="Female";
        }
        JOptionPane.showMessageDialog(frame,"Name: "+getName+"\nAddress: "+getAddress+"\nMobile-num: "+getMN+"\nPassword: "+getPass+"\nRe-pass: "+getRepass+"\nGender: "+getGender+"\nDob: "+getCombobox1+", "+getCombobox2+", "+getCombobox3+"\nCourse: "+getCombobox4+"\nCollege: "+getCombobox5+"\nSemester: "+getCombobox6,"Information",JOptionPane.INFORMATION_MESSAGE);//frame error due to JOptionPane.showMessageDialog error message
    }

    else{
        //for reset button works
        text.setText(" ");
        field1.setText(" ");
        field2.setText(" ");
        field3.setText(" ");
        field4.setText(" ");
        group.clearSelection();//only work for radio button groups
    }
}

```

```

        combobox1.setSelectedIndex(0);
        combobox2.setSelectedIndex(0);
        combobox3.setSelectedIndex(0);
        combobox4.setSelectedIndex(0);
        combobox5.setSelectedIndex(0);
        combobox6.setSelectedIndex(0);
    }
}

public Assignment(){

    frame=new JFrame();
    frame.setLayout(null);
    frame.setTitle("Student Register Form");
    frame.setSize(800,725);
    frame.setResizable(false);
    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    //frame.getContentPane().setBackground(Color.yellow);

    JMenuBar menubar=new JMenuBar();
    frame.setJMenuBar(menubar);
    JMenu menu1=new JMenu("File");
    JMenu menu2=new JMenu();
    menu2.setText("Help");

    menubar.add(menu1);
    menubar.add(menu2);
    JMenu menu3=new JMenu("Save");//we can add menu inside menu but cant add
menu item inside menu item.
    JMenu menu4=new JMenu("Save As");
    JMenu menu5=new JMenu("Close");
    menu1.add(menu3);
    menu1.add(menu4);
    menu1.add(menu5);
    menu3.add("Save as Word files");//we can directly add menu item inside
menu
    menu3.add("Save as Text files");
    menu4.add("kasari");
    menu5.add("kbata");

    //label1
    label1 =new JLabel("Register a new Student");
    label1.setFont(new Font("Arial",Font.BOLD,20));
    label1.setForeground(Color.BLUE);
    label1.setBounds(250,30,300,30);
    frame.add(label1);

```

```

//label2
label2=new JLabel("Name:");
label2.setBounds(130,110,60,20);
label2.setFont(new Font("Arial",Font.BOLD,15));
label2.setForeground(Color.BLACK);
frame.add(label2);
//textfield
field1=new JTextField();
field1.setBounds(350,100,200,30);
field1.setBorder(BorderFactory.createLineBorder(Color.RED));
field1.setText("Your full Name");
frame.add(field1);
//label3
label3=new JLabel("DOB:");
label3.setBounds(130,160,40,20);
label3.setFont(new Font("Arial",Font.BOLD,15));
label3.setForeground(Color.BLACK);
frame.add(label3);
//comboboxs
combobox1=new JComboBox();
combobox1.setBounds(350,150,80,25);
frame.add(combobox1);
combobox1.addItem("Year:");
for(int i=2000;i<=2023;i++)
{
    combobox1.addItem(i);
}

combobox2=new JComboBox();
combobox2.setBounds(450,150,80,25);
frame.add(combobox2);
combobox2.addItem("Month:");
String
month[]={ "January", "February", "March", "April", "May", "June", "July", "August", "September", "October", "November", "December"};
// for(String addmonth:month){
//     combobox2.addItem(addmonth);
// }
for(int i=0;i<month.length;i++){
    combobox2.addItem(month[i]);
}

combobox3=new JComboBox();
combobox3.setBounds(550,150,80,25);

```

```
frame.add(combobox3);
combobox3.addItem("Day");
for(int i=1;i<=33;i++)
{
    combobox3.addItem(i);
}

label4=new JLabel("Gender:");
label4.setBounds(130,220,60,20);
label4.setFont(new Font("Arial",Font.BOLD,15));
label4.setForeground(Color.BLACK);
frame.add(label4);

    button1=new JRadioButton("Male");
    button1.setBounds(350,210,100,30);
    frame.add(button1);

    button2=new JRadioButton("Female");
    button2.setBounds(450,210,100,30);
    frame.add(button2);

    group=new ButtonGroup();
    group.add(button1);
    group.add(button2);

label5=new JLabel("Address:");
label5.setBounds(130,270,65,20);
label5.setFont(new Font("Arial",Font.BOLD,15));
label5.setForeground(Color.BLACK);
frame.add(label5);

text=new JTextArea();
text.setBounds(350,250,200,60);
text.setBorder(BorderFactory.createLineBorder(Color.RED));
text.setText("Your Address");
frame.add(text);

label6=new JLabel("Mobile-number:");
label6.setBounds(130,340,120,20);
label6.setFont(new Font("Arial",Font.BOLD,15));
label6.setForeground(Color.BLACK);
frame.add(label6);
```

```
field2=new JTextField();
field2.setBounds(350,330,200,30);
field2.setBorder(BorderFactory.createLineBorder(Color.RED));
field2.setText("You'r Mobile num");
frame.add(field2);

label7=new JLabel("Password:");
label7.setBounds(130,390,100,20);
label7.setFont(new Font("Arial",Font.BOLD,15));
label7.setForeground(Color.BLACK);
frame.add(label7);

field3=new JTextField();
field3.setBounds(350,380,200,30);
field3.setBorder(BorderFactory.createLineBorder(Color.RED));
field3.setText("Your Passord");
frame.add(field3);

label8=new JLabel("Re-Password:");
label8.setBounds(130,440,100,20);
label8.setFont(new Font("Arial",Font.BOLD,15));
label8.setForeground(Color.BLACK);
frame.add(label8);

field4=new JTextField();
field4.setBounds(350,430,200,30);
field4.setBorder(BorderFactory.createLineBorder(Color.RED));
field4.setText("Re-Type pass");
frame.add(field4);

label9=new JLabel("Courses:");
label9.setBounds(130,490,70,20);
label9.setFont(new Font("Arial",Font.BOLD,15));
label9.setForeground(Color.BLACK);
frame.add(label9);

combobox4=new JComboBox();
combobox4.setBounds(350,480,200,30);
combobox4.addItem("Bsc Hons Computing");
combobox4.addItem("Bsc Hons BBA");
frame.add(combobox4);
```

```

label10=new JLabel("College:");
label10.setBounds(130,540,60,20);
label10.setFont(new Font("Arial",Font.BOLD,15));
label10.setForeground(Color.BLACK);
frame.add(label10);

combobox5=new JComboBox();
combobox5.setBounds(350,530,200,30);
combobox5.addItem("Itahari International College");
frame.add(combobox5);

label11=new JLabel("Semester:");
label11.setBounds(130,580,80,20);
label11.setFont(new Font("Arial",Font.BOLD,15));
label11.setForeground(Color.BLACK);
frame.add(label11);

combobox6=new JComboBox();
combobox6.setBounds(350,570,200,30);
combobox6.addItem("1");
combobox6.addItem("2");
combobox6.addItem("3");
frame.add(combobox6);

button3=new JButton();
button3.setText("Submit");
button3.setBounds(350,610,100,30);
frame.add(button3);
button3.addActionListener(this);

button4=new JButton();
button4.setText("Reset");
button4.setBounds(500,610,100,30);
frame.add(button4);
button4.addActionListener(this);

frame.setVisible(true);
}

public static void main(String args[]){
    new Assignment();
}
}

```

Output:

Student Register Form

File Help

Register a new Student

Name:

DOB:

Gender: ☒ Male ☐ Female

Address:

Mobile-number:

Password:

Re-Password:

Courses:

College:

Semester:

Student Register Form

File Help

Register a new Student

Name:

Ankit

DOB:

2004

August

27

Gender:

Address:

Mobile-number:

Password:

Re-Password:

jfdajdfj

Courses:

Bsc Hons Computing

College:

Itahari International College

Semester:

1

Submit

Reset

Information

Name: Ankit

Address: Dharan

Mobile-num: 9854858543

Password: jfkdsjfkfjas

Re-pass: jfjdfajdfj

Gender: Male

Dob: 2004, August, 27

Course: Bsc Hons Computing

College: Itahari International College

Semester: 1

OK

Student Register Form

File Help

Register a new Student

Name:

Ankit

DOB:

2004

▼

August

▼

27

▼

Gender:

☒ Male

☐ Female

Address:

Dharan

Mobile-number:

9854858543

Password:

jfkdsjkfjas

Re-Password:

jfjdfajdfj

Courses:

Bsc Hons Computing

▼

College:

Itahari International College

▼

Semester:

1

▼

Submit

Reset

Student Register Form

File Help

Register a new Student

Name:

DOB:

Year: ▾

Month: ▾

Day ▾

Gender:

☐ Male

☐ Female

Address:

Mobile-number:

Password:

Re-Password:

Courses:

Bsc Hons Computing ▾

College:

Itahari International College ▾

Semester:

1 ▾

Submit

Reset

WEEK-20 GUI

CODES:

```
import javax.swing.JFrame;
import javax.swing.JRadioButton;
import javax.swing.JTextArea;
import javax.swing.JLabel;
import javax.swing.JMenu;
import javax.swing.JMenuBar;
import javax.swing.JMenuItem;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JTextField;
import javax.swing.event.AncestorListener;

import java.awt.Color;
import java.awt.Font;
import java.awt.GridLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.BorderFactory;
import javax.swing.ButtonGroup;
import javax.swing.JButton;
import javax.swing.JComboBox;
class Assignment
{
    JFrame frame;
    JLabel label1;
    JLabel label2;
    JTextField field1;
    JLabel label3;
    JLabel label4;
    JLabel label5;
    JLabel label6;
    JLabel label7;
    JLabel label8;
    JLabel label9;
    JLabel label10;
    JLabel label11;
    JComboBox combobox1;
    JComboBox combobox2;
    JComboBox combobox3;
    JRadioButton button1;
    JRadioButton button2;
    ButtonGroup group;
```

```

        JTextArea text;
        JTextField field2;
        JTextField field3;
        JTextField field4;
        JComboBox combobox4;
        JComboBox combobox5;
        JComboBox combobox6;
        JButton button3;
        JButton button4;
//    public void actionPerformed(ActionEvent obj)
//    {
//        if((obj.getActionCommand()).equals("Submit")){
//            String getName=field1.getText();
//            String getMN=field2.getText();
//            String getPass=field3.getText();
//            String getRepass=field4.getText();
//            String getAddress=text.getText();
//            String getGender=" ";
//            String getCombobox1=combobox1.getSelectedItem().toString();
//            String getCombobox2=combobox2.getSelectedItem().toString();
//            String getCombobox3=combobox3.getSelectedItem().toString();
//            String getCombobox4=combobox4.getSelectedItem().toString();
//            String getCombobox5=combobox5.getSelectedItem().toString();
//            String getCombobox6=combobox6.getSelectedItem().toString();

//            if(button1.isSelected())
//            {
//                getGender="Male";
//            }
//            else{
//                getGender="Female";
//            }
//            JOptionPane.showMessageDialog(frame,"Name: "+getName+"\nAddress:
"+getAddress+"\nMobile-num: "+getMN+"\nPassword: "+getPass+"\nRe-
pass:"+getRepass+"\nGender: "+getGender+"\nDob:
"+getCombobox1+", "+getCombobox2+", "+getCombobox3+"\nCourse:
"+getCombobox4+"\nCollege: "+getCombobox5+"\nSemester:
"+getCombobox6,"Information",JOptionPane.INFORMATION_MESSAGE);//frame error due
to JOptionPane.showMessageDialog error message
//        }

//    else{
//        //for reset button works
//        text.setText(" ");
//        field1.setText(" ");

```

```

//    field2.setText(" ");
//    field3.setText(" ");
//    field4.setText(" ");
//    group.clearSelection();//only work for radio button groups
//    combobox1.setSelectedIndex(0);
//    combobox2.setSelectedIndex(0);
//    combobox3.setSelectedIndex(0);
//    combobox4.setSelectedIndex(0);
//    combobox5.setSelectedIndex(0);
//    combobox6.setSelectedIndex(0);
//    }
//    }
public Assignment(){

    frame=new JFrame();
    frame.setLayout(null);
    frame.setTitle("Student Register Form");
    frame.setSize(800,725);
    frame.setResizable(false);
    frame.setLocationRelativeTo(null);
    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    //frame.getContentPane().setBackground(Color.yellow);

    JMenuBar menubar=new JMenuBar();
    frame.setJMenuBar(menubar);
    JMenu menu1=new JMenu("File");
    JMenu menu2=new JMenu();
    menu2.setText("Help");
    JMenu menu9=new JMenu("About");

    menubar.add(menu1);
    menubar.add(menu2);
    menubar.add(menu9);
    JMenuItem menu3=new JMenuItem("Open");//we can add menu inside menu but
cant add menu item inside menu item.
    menu3.addActionListener(new ActionListener(){
        public void actionPerformed(ActionEvent e) {
            JFrame framehai=new JFrame("dimensions");
            framehai.setSize(800,700);
            framehai.setLayout(null);
            framehai.setResizable(false);
            framehai.setLocationRelativeTo(null);
            framehai.setLayout(new GridLayout(2,2));
            framehai.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

```

```
JMenuBar men=new JMenuBar();
framehai.setJMenuBar(men);
JMenu itm=new JMenu("Go");
men.add(itm);
itm.add("Back");
// men.addAncestorListener((AncestorListener) new ActionListener(){
//     public void actionPerformed(ActionEvent e){
//         framehai.dispose();
//         frame.setOpen((frame));
//     }
// });
JPanel pn=new JPanel();
pn.setLayout(null);
pn.setBackground(Color.RED);
framehai.add(pn);
JLabel lb=new JLabel("Name");
lb.setBounds(20,80,40,20);
lb.setForeground(Color.BLUE);
JTextField fld=new JTextField();
fld.setBounds(100,80,100,20);
JButton bt=new JButton("Submit");
bt.setBounds(100,200,100,30);
pn.add(bt);
pn.add(fld);
pn.add(lb);

JPanel pn2=new JPanel();
pn2.setLayout(null);
pn2.setBackground(Color.BLUE);
framehai.add(pn2);
JLabel lb1=new JLabel("Cast");
lb1.setBounds(20,80,40,20);
lb1.setForeground(Color.RED);
JTextField fld1=new JTextField();
fld1.setBounds(100,80,100,20);
JButton bt1=new JButton("Submit");
bt1.setBounds(100,200,100,30);
pn2.add(bt1);
pn2.add(fld1);
pn2.add(lb1);

JPanel pn3=new JPanel();
pn3.setLayout(null);
pn3.setBackground(Color.ORANGE);
```

```

        framehai.add(pn3);
        JLabel lb2=new JLabel("Address");
        lb2.setBounds(20,80,70,20);
        lb.setForeground(Color.PINK);
        JTextField fld2=new JTextField();
        fld2.setBounds(100,80,100,20);
        JButton bt2=new JButton("Submit");
        bt.setBounds(100,200,100,30);
        pn3.add(bt2);
        pn3.add(fld2);
        pn3.add(lb2);

        JPanel pn4=new JPanel();
        pn4.setLayout(null);
        pn4.setBackground(Color.PINK);
        framehai.add(pn4);
        JLabel lb3=new JLabel("Hoby");
        lb3.setBounds(20,80,40,20);
        lb3.setForeground(Color.BLACK);
        JTextField fld3=new JTextField();
        fld3.setBounds(100,80,100,20);
        JButton bt3=new JButton("Submit");
        bt3.setBounds(100,200,100,30);
        pn4.add(bt3);
        pn4.add(fld3);
        pn4.add(lb3);

        frame.dispose();
        framehai.setVisible(true);
    });
    JMenuItem menu4=new JMenuItem("Save");
    menu4.addActionListener(new ActionListener(){
        public void actionPerformed(ActionEvent obj)
    {
        String getName=field1.getText();
        String getMN=field2.getText();
        String getPass=field3.getText();
        String getRepass=field4.getText();
        String getAddress=text.getText();
        String getGender=" ";
        String getCombobox1=combobox1.getSelectedItem().toString();
        String getCombobox2=combobox2.getSelectedItem().toString();
        String getCombobox3=combobox3.getSelectedItem().toString();
    }
}

```



```

String getCombobox4=combobox4.getSelectedItem().toString();
String getCombobox5=combobox5.getSelectedItem().toString();
String getCombobox6=combobox6.getSelectedItem().toString();
if(button1.isSelected())
{
    getGender="Male";
}
else{
    getGender="Female";
}
JOptionPane.showMessageDialog(frame,"Name: "+getName+"\nAddress:
"+getAddress+"\nMobile-num: "+getMN+"\nPassword: "+getPass+"\nRe-
pass:"+getRepass+"\nGender: "+getGender+"\nDob:
"+getCombobox1+", "+getCombobox2+", "+getCombobox3+"\nCourse:
"+getCombobox4+"\nCollege: "+getCombobox5+"\nSemester:
"+getCombobox6,"Information",JOptionPane.INFORMATION_MESSAGE);//frame error due
to JOptionPane.showMessageDialog error message
}
});

JMenuItem menu5=new JMenuItem("New");
menu5.addActionListener(new ActionListener(){
    public void actionPerformed(ActionEvent e){
        text.setText(" ");
        field1.setText(" ");
        field2.setText(" ");
        field3.setText(" ");
        field4.setText(" ");
        group.clearSelection();//only work for radio button groups
        combobox1.setSelectedIndex(0);
        combobox2.setSelectedIndex(0);
        combobox3.setSelectedIndex(0);
        combobox4.setSelectedIndex(0);
        combobox5.setSelectedIndex(0);
        combobox6.setSelectedIndex(0);
    }
});

JMenuItem menu6=new JMenuItem("Exit");
menu6.addActionListener(new ActionListener(){
    public void actionPerformed(ActionEvent e){
        frame.dispose();
    }
});
menu1.add(menu3);
menu1.add(menu4);
menu1.add(menu5);

```

```

        menu1.add(menu6);

//label1
label1 =new JLabel("Register a new Student");
label1.setFont(new Font("Arial",Font.BOLD,20));
label1.setForeground(Color.BLUE);
label1.setBounds(250,30,300,30);
frame.add(label1);
//label2
label2=new JLabel("Name:");
label2.setBounds(130,110,60,20);
label2.setFont(new Font("Arial",Font.BOLD,15));
label2.setForeground(Color.BLACK);
frame.add(label2);
//textfield
field1=new JTextField();
field1.setBounds(350,100,200,30);
field1.setBorder(BorderFactory.createLineBorder(Color.RED));
field1.setText("Your full Name");
frame.add(field1);
//label3
label3=new JLabel("DOB:");
label3.setBounds(130,160,40,20);
label3.setFont(new Font("Arial",Font.BOLD,15));
label3.setForeground(Color.BLACK);
frame.add(label3);
//comboboxs
combobox1=new JComboBox();
combobox1.setBounds(350,150,80,25);
frame.add(combobox1);
combobox1.addItem("Year:");
for(int i=2000;i<=2023;i++)
{
    combobox1.addItem(i);
}

combobox2=new JComboBox();
combobox2.setBounds(450,150,80,25);
frame.add(combobox2);
combobox2.addItem("Month:");
String
month[]={ "January", "February", "March", "April", "May", "June", "July", "August", "Septe
mber", "October", "November", "December"};
// for(String addmonth:month){

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```

//    combobox2.addItem(addmonth);
// }
for(int i=0;i<month.length;i++){
    combobox2.addItem(month[i]);
}

combobox3=new JComboBox();
combobox3.setBounds(550,150,80,25);
frame.add(combobox3);
combobox3.addItem("Day");
for(int i=1;i<=33;i++)
{
    combobox3.addItem(i);
}

label4=new JLabel("Gender:");
label4.setBounds(130,220,60,20);
label4.setFont(new Font("Arial",Font.BOLD,15));
label4.setForeground(Color.BLACK);
frame.add(label4);

    button1=new JRadioButton("Male");
    button1.setBounds(350,210,100,30);
    frame.add(button1);

    button2=new JRadioButton("Female");
    button2.setBounds(450,210,100,30);
    frame.add(button2);

    group=new ButtonGroup();
    group.add(button1);
    group.add(button2);

label5=new JLabel("Address:");
label5.setBounds(130,270,65,20);
label5.setFont(new Font("Arial",Font.BOLD,15));
label5.setForeground(Color.BLACK);
frame.add(label5);

text=new JTextArea();
text.setBounds(350,250,200,60);
text.setBorder(BorderFactory.createLineBorder(Color.RED));
text.setText("Your Address");

```

```
frame.add(text);

label6=new JLabel("Mobile-number:");
label6.setBounds(130,340,120,20);
label6.setFont(new Font("Arial",Font.BOLD,15));
label6.setForeground(Color.BLACK);
frame.add(label6);

field2=new JTextField();
field2.setBounds(350,330,200,30);
field2.setBorder(BorderFactory.createLineBorder(Color.RED));
field2.setText("You'r Mobile num");
frame.add(field2);

label7=new JLabel("Password:");
label7.setBounds(130,390,100,20);
label7.setFont(new Font("Arial",Font.BOLD,15));
label7.setForeground(Color.BLACK);
frame.add(label7);

field3=new JTextField();
field3.setBounds(350,380,200,30);
field3.setBorder(BorderFactory.createLineBorder(Color.RED));
field3.setText("Your Passord");
frame.add(field3);

label8=new JLabel("Re-Password:");
label8.setBounds(130,440,100,20);
label8.setFont(new Font("Arial",Font.BOLD,15));
label8.setForeground(Color.BLACK);
frame.add(label8);

field4=new JTextField();
field4.setBounds(350,430,200,30);
field4.setBorder(BorderFactory.createLineBorder(Color.RED));
field4.setText("Re-Type pass");
frame.add(field4);

label9=new JLabel("Courses:");
label9.setBounds(130,490,70,20);
label9.setFont(new Font("Arial",Font.BOLD,15));
label9.setForeground(Color.BLACK);
```

```

frame.add(label9);

combobox4=new JComboBox();
combobox4.setBounds(350,480,200,30);
combobox4.addItem("Bsc Hons Computing");
combobox4.addItem("Bsc Hons BBA");
frame.add(combobox4);

label10=new JLabel("College:");
label10.setBounds(130,540,60,20);
label10.setFont(new Font("Arial",Font.BOLD,15));
label10.setForeground(Color.BLACK);
frame.add(label10);

combobox5=new JComboBox();
combobox5.setBounds(350,530,200,30);
combobox5.addItem("Itahari International College");
frame.add(combobox5);

label11=new JLabel("Semester:");
label11.setBounds(130,580,80,20);
label11.setFont(new Font("Arial",Font.BOLD,15));
label11.setForeground(Color.BLACK);
frame.add(label11);

combobox6=new JComboBox();
combobox6.setBounds(350,570,200,30);
combobox6.addItem("1");
combobox6.addItem("2");
combobox6.addItem("3");
frame.add(combobox6);

button3=new JButton();
button3.setText("Submit");
button3.setBounds(440,610,100,30);
frame.add(button3);
button3.addActionListener(new ActionListener(){
    public void actionPerformed(ActionEvent obj)
    {
        String getName=field1.getText();
        String getMN=field2.getText();
        String getPass=field3.getText();
        String getRepass=field4.getText();
        String getAddress=text.getText();
        String getGender=" ";
    }
}

```

```

        String getCombobox1=combobox1.getSelectedItem().toString();
        String getCombobox2=combobox2.getSelectedItem().toString();
        String getCombobox3=combobox3.getSelectedItem().toString();
        String getCombobox4=combobox4.getSelectedItem().toString();
        String getCombobox5=combobox5.getSelectedItem().toString();
        String getCombobox6=combobox6.getSelectedItem().toString();
        if(button1.isSelected())
        {
            getGender="Male";
        }
        else{
            getGender="Female";
        }
        JOptionPane.showMessageDialog(frame,"Name: "+getName+"\nAddress:
"+getAddress+"\nMobile-num: "+getMN+"\nPassword: "+getPass+"\nRe-
pass:"+getRepass+"\nGender: "+getGender+"\nDob:
"+getCombobox1+", "+getCombobox2+", "+getCombobox3+"\nCourse:
"+getCombobox4+"\nCollege: "+getCombobox5+"\nSemester:
"+getCombobox6,"Information",JOptionPane.INFORMATION_MESSAGE);//frame error due
to JOptionPane.showMessageDialog error message
    }
});

button4=new JButton();
button4.setText("Reset");
button4.setBounds(600,610,100,30);
frame.add(button4);
button4.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent obj)
    {
        text.setText(" ");
        field1.setText(" ");
        field2.setText(" ");
        field3.setText(" ");
        field4.setText(" ");
        group.clearSelection();//only work for radio button groups
        combobox1.setSelectedIndex(0);
        combobox2.setSelectedIndex(0);
        combobox3.setSelectedIndex(0);
        combobox4.setSelectedIndex(0);
        combobox5.setSelectedIndex(0);
        combobox6.setSelectedIndex(0);
    }
});

JButton button5=new JButton();

```

```

button5.setText("New_Frame");
button5.setBounds(200,610,150,30);
frame.add(button5);
button5.addActionListener(new ActionListener(){
    public void actionPerformed(ActionEvent e){
        JFrame framehai=new JFrame("dimensions");
        framehai.setSize(800,700);
        framehai.setLayout(null);
        framehai.setResizable(false);
        framehai.setLocationRelativeTo(null);
        framehai.setLayout(new GridLayout(2,2));
        framehai.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        JMenuBar men=new JMenuBar();
        framehai.setJMenuBar(men);
        JMenu itm=new JMenu("Go");
        men.add(itm);
        itm.add("Back");
        // men.addAncestorListener((AncestorListener) new ActionListener(){
        //     public void actionPerformed(ActionEvent e){
        //         framehai.dispose();
        //         frame.setOpen((frame));
        //     }
        // });
        JPanel pn=new JPanel();
        pn.setLayout(null);
        pn.setBackground(Color.RED);
        framehai.add(pn);
        JLabel lb=new JLabel("Name");
        lb.setBounds(20,80,40,20);
        lb.setForeground(Color.BLUE);
        JTextField fld=new JTextField();
        fld.setBounds(100,80,100,20);
        JButton bt=new JButton("Submit");
        bt.setBounds(100,200,100,30);
        pn.add(bt);
        pn.add(fld);
        pn.add(lb);

        JPanel pn2=new JPanel();
        pn2.setLayout(null);
        pn2.setBackground(Color.BLUE);
        framehai.add(pn2);
        JLabel lb1=new JLabel("Cast");
        lb1.setBounds(20,80,40,20);

```

```
lb1.setForeground(Color.RED);
JTextField fld1=new JTextField();
fld1.setBounds(100,80,100,20);
JButton bt1=new JButton("Submit");
bt1.setBounds(100,200,100,30);
pn2.add(bt1);
pn2.add(fld1);
pn2.add(lb1);
```

```
JPanel pn3=new JPanel();
pn3.setLayout(null);
pn3.setBackground(Color.ORANGE);
framehai.add(pn3);
JLabel lb2=new JLabel("Address");
lb2.setBounds(20,80,70,20);
lb2.setForeground(Color.PINK);
JTextField fld2=new JTextField();
fld2.setBounds(100,80,100,20);
JButton bt2=new JButton("Submit");
bt2.setBounds(100,200,100,30);
pn3.add(bt2);
pn3.add(fld2);
pn3.add(lb2);
```

```
JPanel pn4=new JPanel();
pn4.setLayout(null);
pn4.setBackground(Color.PINK);
framehai.add(pn4);
JLabel lb3=new JLabel("Hoby");
lb3.setBounds(20,80,40,20);
lb3.setForeground(Color.BLACK);
JTextField fld3=new JTextField();
fld3.setBounds(100,80,100,20);
JButton bt3=new JButton("Submit");
bt3.setBounds(100,200,100,30);
pn4.add(bt3);
pn4.add(fld3);
pn4.add(lb3);
```

```
frame.dispose();
framehai.setVisible(true);
```



```

    }
    });

    frame.setVisible(true);
}

public static void main(String args[]){
    new Assignment();
}
}

```

The screenshot shows a Java IDE with a project named 'Assignment'. The 'EXPLORER' panel on the left lists files like 'Assignment.class', 'Assignment\$1.class', etc. The 'PROBLEMS' panel shows several errors. The 'OUTLINE' panel shows the structure of the 'Assignment' class. The 'TIMELINE' and 'JAVA PROJECTS' panels are also visible. The main window displays the 'Student Register Form' application.

Student Register Form

Register a new Student

Name:

DOB: Year: Month: Day:

Gender: ☐ Male ☐ Female

Address:

Mobile-number:

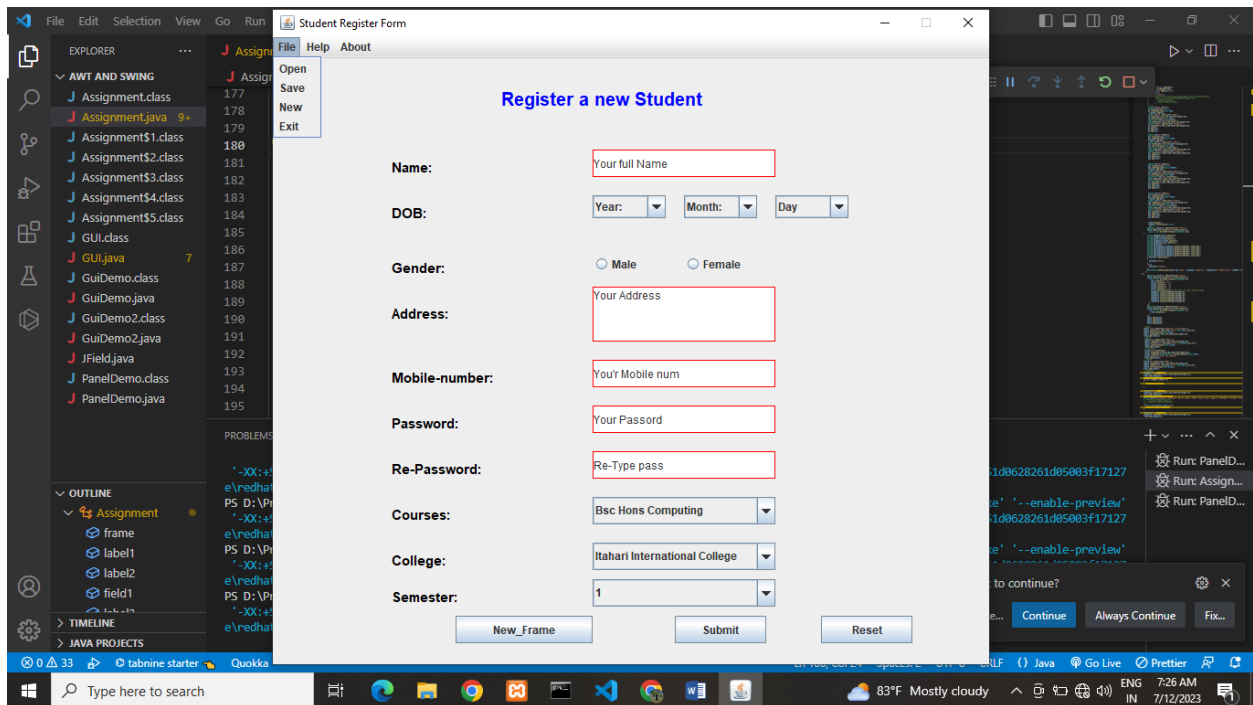
Password:

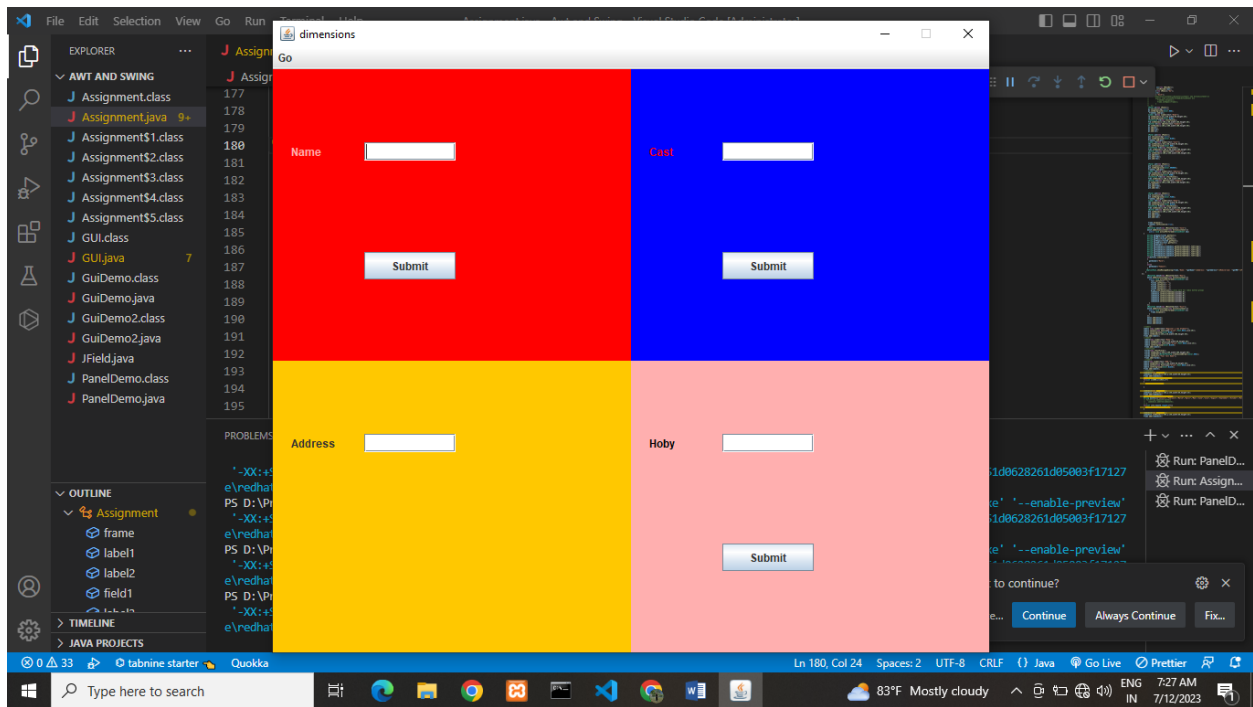
Re-Password:

Courses:

College:

Semester:





WEEK-19

CODE:

```
import javax.swing.JFrame;
import javax.swing.JRadioButton;
import javax.swing.JTextArea;
import javax.swing.JLabel;
import javax.swing.JMenu;
import javax.swing.JMenuBar;
import javax.swing.JOptionPane;
import javax.swing.JTextField;
import java.awt.Color;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.BorderFactory;
import javax.swing.ButtonGroup;
import javax.swing.JButton;
import javax.swing.JComboBox;
class Assignment implements ActionListener
{
    JFrame frame;
    JLabel label1;
    JLabel label2;
    JTextField field1;
    JLabel label3;
    JLabel label4;
    JLabel label5;
    JLabel label6;
    JLabel label7;
    JLabel label8;
    JLabel label9;
    JLabel label10;
    JLabel label11;
    JComboBox combobox1;
    JComboBox combobox2;
    JComboBox combobox3;
    JRadioButton button1;
    JRadioButton button2;
    ButtonGroup group;
    JTextArea text;
    JTextField field2;
    JTextField field3;
    JTextField field4;
```

```

JComboBox combobox4;
JComboBox combobox5;
JComboBox combobox6;
JButton button3;
JButton button4;
public void actionPerformed(ActionEvent obj)
{
    if((obj.getActionCommand()).equals("Submit")){
        String getName=field1.getText();
        String getMN=field2.getText();
        String getPass=field3.getText();
        String getRepass=field4.getText();
        String getAddress=text.getText();
        String getGender=" ";
        String getCombobox1=combobox1.getSelectedItem().toString();
        String getCombobox2=combobox2.getSelectedItem().toString();
        String getCombobox3=combobox3.getSelectedItem().toString();
        String getCombobox4=combobox4.getSelectedItem().toString();
        String getCombobox5=combobox5.getSelectedItem().toString();
        String getCombobox6=combobox6.getSelectedItem().toString();

        if(button1.isSelected())
        {
            getGender="Male";
        }
        else{
            getGender="Female";
        }
        JOptionPane.showMessageDialog(frame,"Name: "+getName+"\nAddress: "+getAddress+"\nMobile-num: "+getMN+"\nPassword: "+getPass+"\nRe-pass: "+getRepass+"\nGender: "+getGender+"\nDob: "+getCombobox1+", "+getCombobox2+", "+getCombobox3+"\nCourse: "+getCombobox4+"\nCollege: "+getCombobox5+"\nSemester: "+getCombobox6,"Information",JOptionPane.INFORMATION_MESSAGE);//frame error due to JOptionPane.showMessageDialog error message
    }

    else{
        //for reset button works
        text.setText(" ");
        field1.setText(" ");
        field2.setText(" ");
        field3.setText(" ");
        field4.setText(" ");
        group.clearSelection();//only work for radio button groups
    }
}

```

```

        combobox1.setSelectedIndex(0);
        combobox2.setSelectedIndex(0);
        combobox3.setSelectedIndex(0);
        combobox4.setSelectedIndex(0);
        combobox5.setSelectedIndex(0);
        combobox6.setSelectedIndex(0);
    }
}

public Assignment(){

    frame=new JFrame();
    frame.setLayout(null);
    frame.setTitle("Student Register Form");
    frame.setSize(800,725);
    frame.setResizable(false);
    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    //frame.getContentPane().setBackground(Color.yellow);

    JMenuBar menubar=new JMenuBar();
    frame.setJMenuBar(menubar);
    JMenu menu1=new JMenu("File");
    JMenu menu2=new JMenu();
    menu2.setText("Help");

    menubar.add(menu1);
    menubar.add(menu2);
    JMenu menu3=new JMenu("Save");//we can add menu inside menu but cant add
menu item inside menu item.
    JMenu menu4=new JMenu("Save As");
    JMenu menu5=new JMenu("Close");
    menu1.add(menu3);
    menu1.add(menu4);
    menu1.add(menu5);
    menu3.add("Save as Word files");//we can directly add menu item inside
menu
    menu3.add("Save as Text files");
    menu4.add("kasari");
    menu5.add("kbata");

    //label1
    label1 =new JLabel("Register a new Student");
    label1.setFont(new Font("Arial",Font.BOLD,20));
    label1.setForeground(Color.BLUE);
    label1.setBounds(250,30,300,30);
    frame.add(label1);

```

```

//label2
label2=new JLabel("Name:");
label2.setBounds(130,110,60,20);
label2.setFont(new Font("Arial",Font.BOLD,15));
label2.setForeground(Color.BLACK);
frame.add(label2);
//textfield
field1=new JTextField();
field1.setBounds(350,100,200,30);
field1.setBorder(BorderFactory.createLineBorder(Color.RED));
field1.setText("Your full Name");
frame.add(field1);
//label3
label3=new JLabel("DOB:");
label3.setBounds(130,160,40,20);
label3.setFont(new Font("Arial",Font.BOLD,15));
label3.setForeground(Color.BLACK);
frame.add(label3);
//comboboxs
combobox1=new JComboBox();
combobox1.setBounds(350,150,80,25);
frame.add(combobox1);
combobox1.addItem("Year:");
for(int i=2000;i<=2023;i++)
{
    combobox1.addItem(i);
}

combobox2=new JComboBox();
combobox2.setBounds(450,150,80,25);
frame.add(combobox2);
combobox2.addItem("Month:");
String
month[]={ "January", "February", "March", "April", "May", "June", "July", "August", "September", "October", "November", "December"};
// for(String addmonth:month){
//     combobox2.addItem(addmonth);
// }
for(int i=0;i<month.length;i++){
    combobox2.addItem(month[i]);
}

combobox3=new JComboBox();
combobox3.setBounds(550,150,80,25);

```

```
frame.add(combobox3);
combobox3.addItem("Day");
for(int i=1;i<=33;i++)
{
    combobox3.addItem(i);
}

label4=new JLabel("Gender:");
label4.setBounds(130,220,60,20);
label4.setFont(new Font("Arial",Font.BOLD,15));
label4.setForeground(Color.BLACK);
frame.add(label4);

    button1=new JRadioButton("Male");
    button1.setBounds(350,210,100,30);
    frame.add(button1);

    button2=new JRadioButton("Female");
    button2.setBounds(450,210,100,30);
    frame.add(button2);

    group=new ButtonGroup();
    group.add(button1);
    group.add(button2);

label5=new JLabel("Address:");
label5.setBounds(130,270,65,20);
label5.setFont(new Font("Arial",Font.BOLD,15));
label5.setForeground(Color.BLACK);
frame.add(label5);

text=new JTextArea();
text.setBounds(350,250,200,60);
text.setBorder(BorderFactory.createLineBorder(Color.RED));
text.setText("Your Address");
frame.add(text);

label6=new JLabel("Mobile-number:");
label6.setBounds(130,340,120,20);
label6.setFont(new Font("Arial",Font.BOLD,15));
label6.setForeground(Color.BLACK);
frame.add(label6);
```



```
field2=new JTextField();
field2.setBounds(350,330,200,30);
field2.setBorder(BorderFactory.createLineBorder(Color.RED));
field2.setText("You'r Mobile num");
frame.add(field2);

label7=new JLabel("Password:");
label7.setBounds(130,390,100,20);
label7.setFont(new Font("Arial",Font.BOLD,15));
label7.setForeground(Color.BLACK);
frame.add(label7);

field3=new JTextField();
field3.setBounds(350,380,200,30);
field3.setBorder(BorderFactory.createLineBorder(Color.RED));
field3.setText("Your Passord");
frame.add(field3);

label8=new JLabel("Re-Password:");
label8.setBounds(130,440,100,20);
label8.setFont(new Font("Arial",Font.BOLD,15));
label8.setForeground(Color.BLACK);
frame.add(label8);

field4=new JTextField();
field4.setBounds(350,430,200,30);
field4.setBorder(BorderFactory.createLineBorder(Color.RED));
field4.setText("Re-Type pass");
frame.add(field4);

label9=new JLabel("Courses:");
label9.setBounds(130,490,70,20);
label9.setFont(new Font("Arial",Font.BOLD,15));
label9.setForeground(Color.BLACK);
frame.add(label9);

combobox4=new JComboBox();
combobox4.setBounds(350,480,200,30);
combobox4.addItem("Bsc Hons Computing");
combobox4.addItem("Bsc Hons BBA");
frame.add(combobox4);
```

```
label10=new JLabel("College:");
label10.setBounds(130,540,60,20);
label10.setFont(new Font("Arial",Font.BOLD,15));
label10.setForeground(Color.BLACK);
frame.add(label10);

combobox5=new JComboBox();
combobox5.setBounds(350,530,200,30);
combobox5.addItem("Itahari International College");
frame.add(combobox5);

label11=new JLabel("Semester:");
label11.setBounds(130,580,80,20);
label11.setFont(new Font("Arial",Font.BOLD,15));
label11.setForeground(Color.BLACK);
frame.add(label11);

combobox6=new JComboBox();
combobox6.setBounds(350,570,200,30);
combobox6.addItem("1");
combobox6.addItem("2");
combobox6.addItem("3");
frame.add(combobox6);

button3=new JButton();
button3.setText("Submit");
button3.setBounds(350,610,100,30);
frame.add(button3);
button3.addActionListener(this);

button4=new JButton();
button4.setText("Reset");
button4.setBounds(500,610,100,30);
frame.add(button4);
button4.addActionListener(this);

frame.setVisible(true);
}

public static void main(String args[]){
    new Assignment();
}
}
```

Output:

Student Register Form

File Help

Register a new Student

Name:

DOB:

Gender: ☒ Male ☐ Female

Address:

Mobile-number:

Password:

Re-Password:

Courses:

College:

Semester:

Student Register Form

File Help

Register a new Student

Name:

Ankit

DOB:

2004

August

27

Gender:

Address:

Mobile-number:

Password:

Re-Password:

jfdajdfj

Courses:

Bsc Hons Computing

College:

Itahari International College

Semester:

1

Submit

Reset

Information

Name: Ankit

Address: Dharan

Mobile-num: 9854858543

Password: jfkdsjfkfjas

Re-pass: jfjdfajdfj

Gender: Male

Dob: 2004, August, 27

Course: Bsc Hons Computing

College: Itahari International College

Semester: 1

OK

Student Register Form

File Help

Register a new Student

Name:

Ankit

DOB:

2004

▼

August

▼

27

▼

Gender:

☒ Male

☐ Female

Address:

Dharan

Mobile-number:

9854858543

Password:

jfkdsjkfjas

Re-Password:

jfjdfajdfj

Courses:

Bsc Hons Computing

▼

College:

Itahari International College

▼

Semester:

1

▼

Submit

Reset

Student Register Form

File Help

Register a new Student

Name:

DOB:

Year:

Month:

Day

Gender:

☐ Male

☐ Female

Address:

Mobile-number:

Password:

Re-Password:

Courses:

Bsc Hons Computing

College:

Itahari International College

Semester:

1

Submit

Reset

WEEK-20 GUI

CODES:

```
import javax.swing.JFrame;
import javax.swing.JRadioButton;
import javax.swing.JTextArea;
import javax.swing.JLabel;
import javax.swing.JMenu;
import javax.swing.JMenuBar;
import javax.swing.JMenuItem;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JTextField;
import javax.swing.event.AncestorListener;

import java.awt.Color;
import java.awt.Font;
import java.awt.GridLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.BorderFactory;
import javax.swing.ButtonGroup;
import javax.swing.JButton;
import javax.swing.JComboBox;
class Assignment
{
    JFrame frame;
    JLabel label1;
    JLabel label2;
    JTextField field1;
    JLabel label3;
    JLabel label4;
    JLabel label5;
    JLabel label6;
    JLabel label7;
    JLabel label8;
    JLabel label9;
    JLabel label10;
    JLabel label11;
    JComboBox combobox1;
    JComboBox combobox2;
    JComboBox combobox3;
    JRadioButton button1;
    JRadioButton button2;
    ButtonGroup group;
```

```

        JTextArea text;
        JTextField field2;
        JTextField field3;
        JTextField field4;
        JComboBox combobox4;
        JComboBox combobox5;
        JComboBox combobox6;
        JButton button3;
        JButton button4;
//    public void actionPerformed(ActionEvent obj)
//    {
//        if((obj.getActionCommand()).equals("Submit")){
//            String getName=field1.getText();
//            String getMN=field2.getText();
//            String getPass=field3.getText();
//            String getRepass=field4.getText();
//            String getAddress=text.getText();
//            String getGender=" ";
//            String getCombobox1=combobox1.getSelectedItem().toString();
//            String getCombobox2=combobox2.getSelectedItem().toString();
//            String getCombobox3=combobox3.getSelectedItem().toString();
//            String getCombobox4=combobox4.getSelectedItem().toString();
//            String getCombobox5=combobox5.getSelectedItem().toString();
//            String getCombobox6=combobox6.getSelectedItem().toString();

//            if(button1.isSelected())
//            {
//                getGender="Male";
//            }
//            else{
//                getGender="Female";
//            }
//            JOptionPane.showMessageDialog(frame,"Name: "+getName+"\nAddress:
"+getAddress+"\nMobile-num: "+getMN+"\nPassword: "+getPass+"\nRe-
pass:"+getRepass+"\nGender: "+getGender+"\nDob:
"+getCombobox1+", "+getCombobox2+", "+getCombobox3+"\nCourse:
"+getCombobox4+"\nCollege: "+getCombobox5+"\nSemester:
"+getCombobox6,"Information",JOptionPane.INFORMATION_MESSAGE);//frame error due
to JOptionPane.showMessageDialog error message
//        }

//    else{
//        //for reset button works
//        text.setText(" ");
//        field1.setText(" ");

```



```

//    field2.setText(" ");
//    field3.setText(" ");
//    field4.setText(" ");
//    group.clearSelection();//only work for radio button groups
//    combobox1.setSelectedIndex(0);
//    combobox2.setSelectedIndex(0);
//    combobox3.setSelectedIndex(0);
//    combobox4.setSelectedIndex(0);
//    combobox5.setSelectedIndex(0);
//    combobox6.setSelectedIndex(0);
//    }
//    }
public Assignment(){

    frame=new JFrame();
    frame.setLayout(null);
    frame.setTitle("Student Register Form");
    frame.setSize(800,725);
    frame.setResizable(false);
    frame.setLocationRelativeTo(null);
    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    //frame.getContentPane().setBackground(Color.yellow);

    JMenuBar menubar=new JMenuBar();
    frame.setJMenuBar(menubar);
    JMenu menu1=new JMenu("File");
    JMenu menu2=new JMenu();
    menu2.setText("Help");
    JMenu menu9=new JMenu("About");

    menubar.add(menu1);
    menubar.add(menu2);
    menubar.add(menu9);
    JMenuItem menu3=new JMenuItem("Open");//we can add menu inside menu but
cant add menu item inside menu item.
    menu3.addActionListener(new ActionListener(){
        public void actionPerformed(ActionEvent e) {
            JFrame framehai=new JFrame("dimensions");
            framehai.setSize(800,700);
            framehai.setLayout(null);
            framehai.setResizable(false);
            framehai.setLocationRelativeTo(null);
            framehai.setLayout(new GridLayout(2,2));
            framehai.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

```

```
JMenuBar men=new JMenuBar();
framehai.setJMenuBar(men);
JMenu itm=new JMenu("Go");
men.add(itm);
itm.add("Back");
// men.addAncestorListener((AncestorListener) new ActionListener(){
//     public void actionPerformed(ActionEvent e){
//         framehai.dispose();
//         frame.setOpen((frame));
//     }
// });
JPanel pn=new JPanel();
pn.setLayout(null);
pn.setBackground(Color.RED);
framehai.add(pn);
JLabel lb=new JLabel("Name");
lb.setBounds(20,80,40,20);
lb.setForeground(Color.BLUE);
JTextField fld=new JTextField();
fld.setBounds(100,80,100,20);
JButton bt=new JButton("Submit");
bt.setBounds(100,200,100,30);
pn.add(bt);
pn.add(fld);
pn.add(lb);

JPanel pn2=new JPanel();
pn2.setLayout(null);
pn2.setBackground(Color.BLUE);
framehai.add(pn2);
JLabel lb1=new JLabel("Cast");
lb1.setBounds(20,80,40,20);
lb1.setForeground(Color.RED);
JTextField fld1=new JTextField();
fld1.setBounds(100,80,100,20);
JButton bt1=new JButton("Submit");
bt1.setBounds(100,200,100,30);
pn2.add(bt1);
pn2.add(fld1);
pn2.add(lb1);

JPanel pn3=new JPanel();
pn3.setLayout(null);
pn3.setBackground(Color.ORANGE);
```

```

        framehai.add(pn3);
        JLabel lb2=new JLabel("Address");
        lb2.setBounds(20,80,70,20);
        lb.setForeground(Color.PINK);
        JTextField fld2=new JTextField();
        fld2.setBounds(100,80,100,20);
        JButton bt2=new JButton("Submit");
        bt.setBounds(100,200,100,30);
        pn3.add(bt2);
        pn3.add(fld2);
        pn3.add(lb2);

        JPanel pn4=new JPanel();
        pn4.setLayout(null);
        pn4.setBackground(Color.PINK);
        framehai.add(pn4);
        JLabel lb3=new JLabel("Hoby");
        lb3.setBounds(20,80,40,20);
        lb3.setForeground(Color.BLACK);
        JTextField fld3=new JTextField();
        fld3.setBounds(100,80,100,20);
        JButton bt3=new JButton("Submit");
        bt3.setBounds(100,200,100,30);
        pn4.add(bt3);
        pn4.add(fld3);
        pn4.add(lb3);

        frame.dispose();
        framehai.setVisible(true);
    });
    JMenuItem menu4=new JMenuItem("Save");
    menu4.addActionListener(new ActionListener(){
        public void actionPerformed(ActionEvent obj)
    {
        String getName=field1.getText();
        String getMN=field2.getText();
        String getPass=field3.getText();
        String getRepass=field4.getText();
        String getAddress=text.getText();
        String getGender=" ";
        String getCombobox1=combobox1.getSelectedItem().toString();
        String getCombobox2=combobox2.getSelectedItem().toString();
        String getCombobox3=combobox3.getSelectedItem().toString();
    }
}

```

```

String getCombobox4=combobox4.getSelectedItem().toString();
String getCombobox5=combobox5.getSelectedItem().toString();
String getCombobox6=combobox6.getSelectedItem().toString();
if(button1.isSelected())
{
    getGender="Male";
}
else{
    getGender="Female";
}
JOptionPane.showMessageDialog(frame,"Name: "+getName+"\nAddress:
"+getAddress+"\nMobile-num: "+getMN+"\nPassword: "+getPass+"\nRe-
pass:"+getRepass+"\nGender: "+getGender+"\nDob:
"+getCombobox1+", "+getCombobox2+", "+getCombobox3+"\nCourse:
"+getCombobox4+"\nCollege: "+getCombobox5+"\nSemester:
"+getCombobox6,"Information",JOptionPane.INFORMATION_MESSAGE);//frame error due
to JOptionPane.showMessageDialog error message
}
});

JMenuItem menu5=new JMenuItem("New");
menu5.addActionListener(new ActionListener(){
    public void actionPerformed(ActionEvent e){
        text.setText(" ");
        field1.setText(" ");
        field2.setText(" ");
        field3.setText(" ");
        field4.setText(" ");
        group.clearSelection();//only work for radio button groups
        combobox1.setSelectedIndex(0);
        combobox2.setSelectedIndex(0);
        combobox3.setSelectedIndex(0);
        combobox4.setSelectedIndex(0);
        combobox5.setSelectedIndex(0);
        combobox6.setSelectedIndex(0);
    }
});

JMenuItem menu6=new JMenuItem("Exit");
menu6.addActionListener(new ActionListener(){
    public void actionPerformed(ActionEvent e){
        frame.dispose();
    }
});
menu1.add(menu3);
menu1.add(menu4);
menu1.add(menu5);

```

```

        menu1.add(menu6);

//label1
label1 =new JLabel("Register a new Student");
label1.setFont(new Font("Arial",Font.BOLD,20));
label1.setForeground(Color.BLUE);
label1.setBounds(250,30,300,30);
frame.add(label1);
//label2
label2=new JLabel("Name:");
label2.setBounds(130,110,60,20);
label2.setFont(new Font("Arial",Font.BOLD,15));
label2.setForeground(Color.BLACK);
frame.add(label2);
//textfield
field1=new JTextField();
field1.setBounds(350,100,200,30);
field1.setBorder(BorderFactory.createLineBorder(Color.RED));
field1.setText("Your full Name");
frame.add(field1);
//label3
label3=new JLabel("DOB:");
label3.setBounds(130,160,40,20);
label3.setFont(new Font("Arial",Font.BOLD,15));
label3.setForeground(Color.BLACK);
frame.add(label3);
//comboboxs
combobox1=new JComboBox();
combobox1.setBounds(350,150,80,25);
frame.add(combobox1);
combobox1.addItem("Year:");
for(int i=2000;i<=2023;i++)
{
    combobox1.addItem(i);

}

combobox2=new JComboBox();
combobox2.setBounds(450,150,80,25);
frame.add(combobox2);
combobox2.addItem("Month:");
String
month[]={ "January", "February", "March", "April", "May", "June", "July", "August", "Septe
mber", "October", "November", "December"};
// for(String addmonth:month){

```

```

//    combobox2.addItem(addmonth);
// }
for(int i=0;i<month.length;i++){
    combobox2.addItem(month[i]);
}

combobox3=new JComboBox();
combobox3.setBounds(550,150,80,25);
frame.add(combobox3);
combobox3.addItem("Day");
for(int i=1;i<=33;i++)
{
    combobox3.addItem(i);
}

label4=new JLabel("Gender:");
label4.setBounds(130,220,60,20);
label4.setFont(new Font("Arial",Font.BOLD,15));
label4.setForeground(Color.BLACK);
frame.add(label4);

    button1=new JRadioButton("Male");
    button1.setBounds(350,210,100,30);
    frame.add(button1);

    button2=new JRadioButton("Female");
    button2.setBounds(450,210,100,30);
    frame.add(button2);

    group=new ButtonGroup();
    group.add(button1);
    group.add(button2);

label5=new JLabel("Address:");
label5.setBounds(130,270,65,20);
label5.setFont(new Font("Arial",Font.BOLD,15));
label5.setForeground(Color.BLACK);
frame.add(label5);

text=new JTextArea();
text.setBounds(350,250,200,60);
text.setBorder(BorderFactory.createLineBorder(Color.RED));
text.setText("Your Address");

```

```
frame.add(text);

label6=new JLabel("Mobile-number:");
label6.setBounds(130,340,120,20);
label6.setFont(new Font("Arial",Font.BOLD,15));
label6.setForeground(Color.BLACK);
frame.add(label6);

field2=new JTextField();
field2.setBounds(350,330,200,30);
field2.setBorder(BorderFactory.createLineBorder(Color.RED));
field2.setText("You'r Mobile num");
frame.add(field2);

label7=new JLabel("Password:");
label7.setBounds(130,390,100,20);
label7.setFont(new Font("Arial",Font.BOLD,15));
label7.setForeground(Color.BLACK);
frame.add(label7);

field3=new JTextField();
field3.setBounds(350,380,200,30);
field3.setBorder(BorderFactory.createLineBorder(Color.RED));
field3.setText("Your Passord");
frame.add(field3);

label8=new JLabel("Re-Password:");
label8.setBounds(130,440,100,20);
label8.setFont(new Font("Arial",Font.BOLD,15));
label8.setForeground(Color.BLACK);
frame.add(label8);

field4=new JTextField();
field4.setBounds(350,430,200,30);
field4.setBorder(BorderFactory.createLineBorder(Color.RED));
field4.setText("Re-Type pass");
frame.add(field4);

label9=new JLabel("Courses:");
label9.setBounds(130,490,70,20);
label9.setFont(new Font("Arial",Font.BOLD,15));
label9.setForeground(Color.BLACK);
```

```

frame.add(label9);

combobox4=new JComboBox();
combobox4.setBounds(350,480,200,30);
combobox4.addItem("Bsc Hons Computing");
combobox4.addItem("Bsc Hons BBA");
frame.add(combobox4);

label10=new JLabel("College:");
label10.setBounds(130,540,60,20);
label10.setFont(new Font("Arial",Font.BOLD,15));
label10.setForeground(Color.BLACK);
frame.add(label10);

combobox5=new JComboBox();
combobox5.setBounds(350,530,200,30);
combobox5.addItem("Itahari International College");
frame.add(combobox5);

label11=new JLabel("Semester:");
label11.setBounds(130,580,80,20);
label11.setFont(new Font("Arial",Font.BOLD,15));
label11.setForeground(Color.BLACK);
frame.add(label11);

combobox6=new JComboBox();
combobox6.setBounds(350,570,200,30);
combobox6.addItem("1");
combobox6.addItem("2");
combobox6.addItem("3");
frame.add(combobox6);

button3=new JButton();
button3.setText("Submit");
button3.setBounds(440,610,100,30);
frame.add(button3);
button3.addActionListener(new ActionListener(){
    public void actionPerformed(ActionEvent obj)
    {
        String getName=field1.getText();
        String getMN=field2.getText();
        String getPass=field3.getText();
        String getRepass=field4.getText();
        String getAddress=text.getText();
        String getGender=" ";
    }
}

```



```

        String getCombobox1=combobox1.getSelectedItem().toString();
        String getCombobox2=combobox2.getSelectedItem().toString();
        String getCombobox3=combobox3.getSelectedItem().toString();
        String getCombobox4=combobox4.getSelectedItem().toString();
        String getCombobox5=combobox5.getSelectedItem().toString();
        String getCombobox6=combobox6.getSelectedItem().toString();
        if(button1.isSelected())
        {
            getGender="Male";
        }
        else{
            getGender="Female";
        }
        JOptionPane.showMessageDialog(frame,"Name: "+getName+"\nAddress:
"+getAddress+"\nMobile-num: "+getMN+"\nPassword: "+getPass+"\nRe-
pass:"+getRepass+"\nGender: "+getGender+"\nDob:
"+getCombobox1+", "+getCombobox2+", "+getCombobox3+"\nCourse:
"+getCombobox4+"\nCollege: "+getCombobox5+"\nSemester:
"+getCombobox6,"Information",JOptionPane.INFORMATION_MESSAGE);//frame error due
to JOptionPane.showMessageDialog error message
    }
});

button4=new JButton();
button4.setText("Reset");
button4.setBounds(600,610,100,30);
frame.add(button4);
button4.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent obj)
    {
        text.setText(" ");
        field1.setText(" ");
        field2.setText(" ");
        field3.setText(" ");
        field4.setText(" ");
        group.clearSelection();//only work for radio button groups
        combobox1.setSelectedIndex(0);
        combobox2.setSelectedIndex(0);
        combobox3.setSelectedIndex(0);
        combobox4.setSelectedIndex(0);
        combobox5.setSelectedIndex(0);
        combobox6.setSelectedIndex(0);
    }
});

JButton button5=new JButton();

```

```

button5.setText("New_Frame");
button5.setBounds(200,610,150,30);
frame.add(button5);
button5.addActionListener(new ActionListener(){
    public void actionPerformed(ActionEvent e){
        JFrame framehai=new JFrame("dimensions");
        framehai.setSize(800,700);
        framehai.setLayout(null);
        framehai.setResizable(false);
        framehai.setLocationRelativeTo(null);
        framehai.setLayout(new GridLayout(2,2));
        framehai.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        JMenuBar men=new JMenuBar();
        framehai.setJMenuBar(men);
        JMenu itm=new JMenu("Go");
        men.add(itm);
        itm.add("Back");
        // men.addAncestorListener((AncestorListener) new ActionListener(){
        //     public void actionPerformed(ActionEvent e){
        //         framehai.dispose();
        //         frame.setOpen((frame));
        //     }
        // });
        JPanel pn=new JPanel();
        pn.setLayout(null);
        pn.setBackground(Color.RED);
        framehai.add(pn);
        JLabel lb=new JLabel("Name");
        lb.setBounds(20,80,40,20);
        lb.setForeground(Color.BLUE);
        JTextField fld=new JTextField();
        fld.setBounds(100,80,100,20);
        JButton bt=new JButton("Submit");
        bt.setBounds(100,200,100,30);
        pn.add(bt);
        pn.add(fld);
        pn.add(lb);

        JPanel pn2=new JPanel();
        pn2.setLayout(null);
        pn2.setBackground(Color.BLUE);
        framehai.add(pn2);
        JLabel lb1=new JLabel("Cast");
        lb1.setBounds(20,80,40,20);

```

```
lb1.setForeground(Color.RED);
JTextField fld1=new JTextField();
fld1.setBounds(100,80,100,20);
JButton bt1=new JButton("Submit");
bt1.setBounds(100,200,100,30);
pn2.add(bt1);
pn2.add(fld1);
pn2.add(lb1);
```

```
JPanel pn3=new JPanel();
pn3.setLayout(null);
pn3.setBackground(Color.ORANGE);
framehai.add(pn3);
JLabel lb2=new JLabel("Address");
lb2.setBounds(20,80,70,20);
lb2.setForeground(Color.PINK);
JTextField fld2=new JTextField();
fld2.setBounds(100,80,100,20);
JButton bt2=new JButton("Submit");
bt2.setBounds(100,200,100,30);
pn3.add(bt2);
pn3.add(fld2);
pn3.add(lb2);
```

```
JPanel pn4=new JPanel();
pn4.setLayout(null);
pn4.setBackground(Color.PINK);
framehai.add(pn4);
JLabel lb3=new JLabel("Hoby");
lb3.setBounds(20,80,40,20);
lb3.setForeground(Color.BLACK);
JTextField fld3=new JTextField();
fld3.setBounds(100,80,100,20);
JButton bt3=new JButton("Submit");
bt3.setBounds(100,200,100,30);
pn4.add(bt3);
pn4.add(fld3);
pn4.add(lb3);
```

```
frame.dispose();
framehai.setVisible(true);
```

```

    }
    });

    frame.setVisible(true);
}

public static void main(String args[]){
    new Assignment();
}
}

```

Register a new Student

Name:

DOB: Year: Month: Day:

Gender: ☐ Male ☐ Female

Address:

Mobile-number:

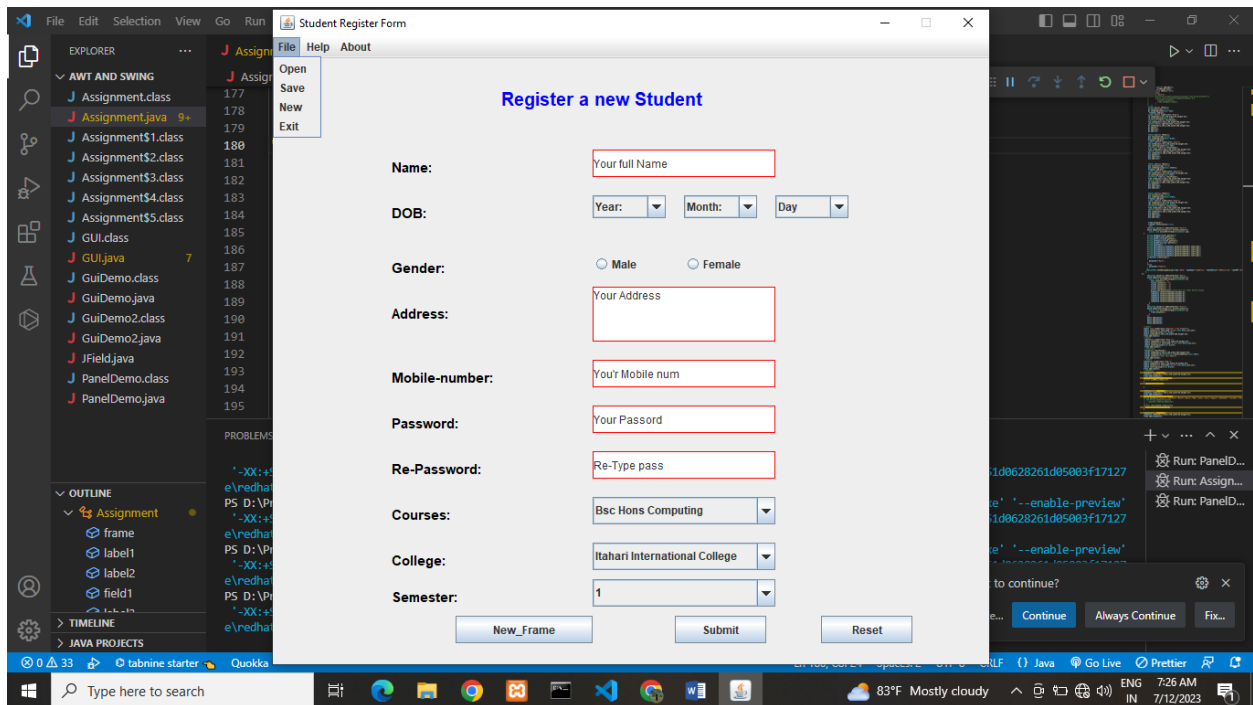
Password:

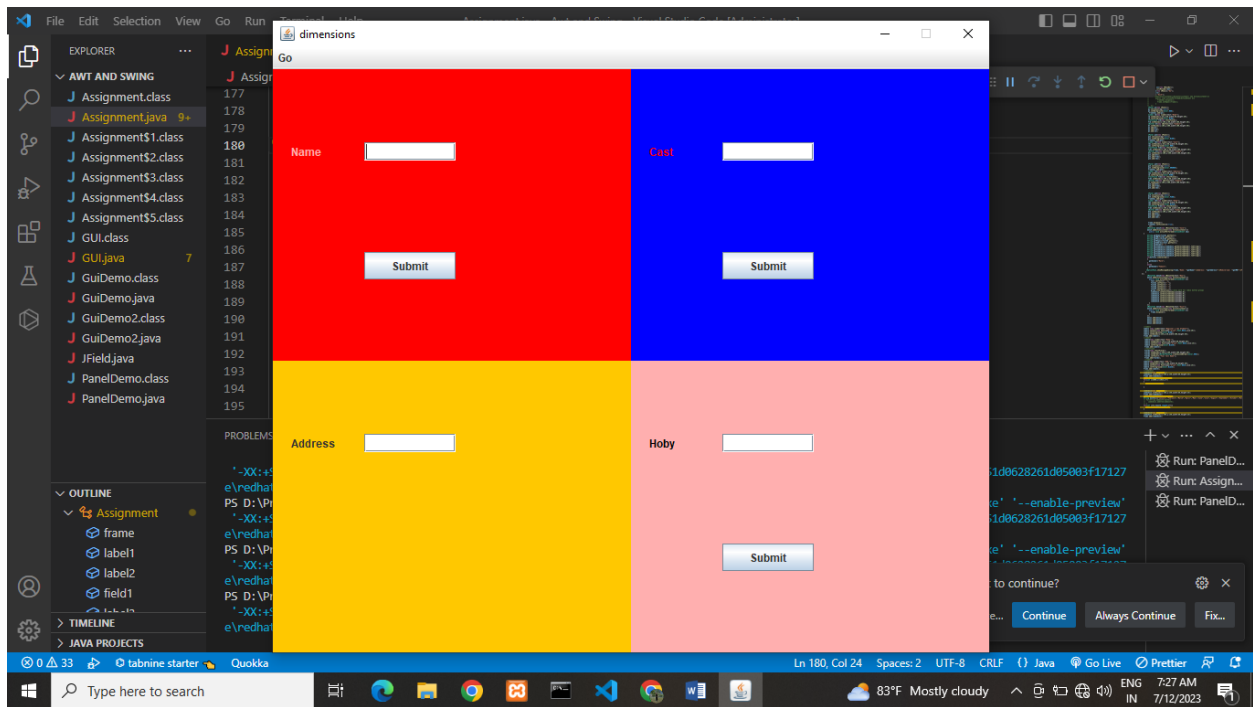
Re-Password:

Courses:

College:

Semester:





WEEK-19

CODE:

```
import javax.swing.JFrame;
import javax.swing.JRadioButton;
import javax.swing.JTextArea;
import javax.swing.JLabel;
import javax.swing.JMenu;
import javax.swing.JMenuBar;
import javax.swing.JOptionPane;
import javax.swing.JTextField;
import java.awt.Color;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.BorderFactory;
import javax.swing.ButtonGroup;
import javax.swing.JButton;
import javax.swing.JComboBox;
class Assignment implements ActionListener
{
    JFrame frame;
    JLabel label1;
    JLabel label2;
    JTextField field1;
    JLabel label3;
    JLabel label4;
    JLabel label5;
    JLabel label6;
    JLabel label7;
    JLabel label8;
    JLabel label9;
    JLabel label10;
    JLabel label11;
    JComboBox combobox1;
    JComboBox combobox2;
    JComboBox combobox3;
    JRadioButton button1;
    JRadioButton button2;
    ButtonGroup group;
    JTextArea text;
    JTextField field2;
    JTextField field3;
    JTextField field4;
```

```

JComboBox combobox4;
JComboBox combobox5;
JComboBox combobox6;
JButton button3;
JButton button4;
public void actionPerformed(ActionEvent obj)
{
    if((obj.getActionCommand()).equals("Submit")){
        String getName=field1.getText();
        String getMN=field2.getText();
        String getPass=field3.getText();
        String getRepass=field4.getText();
        String getAddress=text.getText();
        String getGender=" ";
        String getCombobox1=combobox1.getSelectedItem().toString();
        String getCombobox2=combobox2.getSelectedItem().toString();
        String getCombobox3=combobox3.getSelectedItem().toString();
        String getCombobox4=combobox4.getSelectedItem().toString();
        String getCombobox5=combobox5.getSelectedItem().toString();
        String getCombobox6=combobox6.getSelectedItem().toString();

        if(button1.isSelected())
        {
            getGender="Male";
        }
        else{
            getGender="Female";
        }
        JOptionPane.showMessageDialog(frame,"Name: "+getName+"\nAddress: "+getAddress+"\nMobile-num: "+getMN+"\nPassword: "+getPass+"\nRe-pass: "+getRepass+"\nGender: "+getGender+"\nDob: "+getCombobox1+", "+getCombobox2+", "+getCombobox3+"\nCourse: "+getCombobox4+"\nCollege: "+getCombobox5+"\nSemester: "+getCombobox6,"Information",JOptionPane.INFORMATION_MESSAGE);//frame error due to JOptionPane.showMessageDialog error message
    }

    else{
        //for reset button works
        text.setText(" ");
        field1.setText(" ");
        field2.setText(" ");
        field3.setText(" ");
        field4.setText(" ");
        group.clearSelection();//only work for radio button groups
    }
}

```



```

        combobox1.setSelectedIndex(0);
        combobox2.setSelectedIndex(0);
        combobox3.setSelectedIndex(0);
        combobox4.setSelectedIndex(0);
        combobox5.setSelectedIndex(0);
        combobox6.setSelectedIndex(0);
    }
}

public Assignment(){

    frame=new JFrame();
    frame.setLayout(null);
    frame.setTitle("Student Register Form");
    frame.setSize(800,725);
    frame.setResizable(false);
    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    //frame.getContentPane().setBackground(Color.yellow);

    JMenuBar menubar=new JMenuBar();
    frame.setJMenuBar(menubar);
    JMenu menu1=new JMenu("File");
    JMenu menu2=new JMenu();
    menu2.setText("Help");

    menubar.add(menu1);
    menubar.add(menu2);
    JMenu menu3=new JMenu("Save");//we can add menu inside menu but cant add
menu item inside menu item.
    JMenu menu4=new JMenu("Save As");
    JMenu menu5=new JMenu("Close");
    menu1.add(menu3);
    menu1.add(menu4);
    menu1.add(menu5);
    menu3.add("Save as Word files");//we can directly add menu item inside
menu
    menu3.add("Save as Text files");
    menu4.add("kasari");
    menu5.add("kbata");

    //label1
    label1 =new JLabel("Register a new Student");
    label1.setFont(new Font("Arial",Font.BOLD,20));
    label1.setForeground(Color.BLUE);
    label1.setBounds(250,30,300,30);
    frame.add(label1);

```

```

//label2
label2=new JLabel("Name:");
label2.setBounds(130,110,60,20);
label2.setFont(new Font("Arial",Font.BOLD,15));
label2.setForeground(Color.BLACK);
frame.add(label2);
//textfield
field1=new JTextField();
field1.setBounds(350,100,200,30);
field1.setBorder(BorderFactory.createLineBorder(Color.RED));
field1.setText("Your full Name");
frame.add(field1);
//label3
label3=new JLabel("DOB:");
label3.setBounds(130,160,40,20);
label3.setFont(new Font("Arial",Font.BOLD,15));
label3.setForeground(Color.BLACK);
frame.add(label3);
//comboboxs
combobox1=new JComboBox();
combobox1.setBounds(350,150,80,25);
frame.add(combobox1);
combobox1.addItem("Year:");
for(int i=2000;i<=2023;i++)
{
    combobox1.addItem(i);
}

combobox2=new JComboBox();
combobox2.setBounds(450,150,80,25);
frame.add(combobox2);
combobox2.addItem("Month:");
String
month[]={ "January", "February", "March", "April", "May", "June", "July", "August", "September", "October", "November", "December"};
// for(String addmonth:month){
//     combobox2.addItem(addmonth);
// }
for(int i=0;i<month.length;i++){
    combobox2.addItem(month[i]);
}

combobox3=new JComboBox();
combobox3.setBounds(550,150,80,25);

```

```
frame.add(combobox3);
combobox3.addItem("Day");
for(int i=1;i<=33;i++)
{
    combobox3.addItem(i);
}

label4=new JLabel("Gender:");
label4.setBounds(130,220,60,20);
label4.setFont(new Font("Arial",Font.BOLD,15));
label4.setForeground(Color.BLACK);
frame.add(label4);

    button1=new JRadioButton("Male");
    button1.setBounds(350,210,100,30);
    frame.add(button1);

    button2=new JRadioButton("Female");
    button2.setBounds(450,210,100,30);
    frame.add(button2);

    group=new ButtonGroup();
    group.add(button1);
    group.add(button2);

label5=new JLabel("Address:");
label5.setBounds(130,270,65,20);
label5.setFont(new Font("Arial",Font.BOLD,15));
label5.setForeground(Color.BLACK);
frame.add(label5);

text=new JTextArea();
text.setBounds(350,250,200,60);
text.setBorder(BorderFactory.createLineBorder(Color.RED));
text.setText("Your Address");
frame.add(text);

label6=new JLabel("Mobile-number:");
label6.setBounds(130,340,120,20);
label6.setFont(new Font("Arial",Font.BOLD,15));
label6.setForeground(Color.BLACK);
frame.add(label6);
```

```
field2=new JTextField();
field2.setBounds(350,330,200,30);
field2.setBorder(BorderFactory.createLineBorder(Color.RED));
field2.setText("You'r Mobile num");
frame.add(field2);

label7=new JLabel("Password:");
label7.setBounds(130,390,100,20);
label7.setFont(new Font("Arial",Font.BOLD,15));
label7.setForeground(Color.BLACK);
frame.add(label7);

field3=new JTextField();
field3.setBounds(350,380,200,30);
field3.setBorder(BorderFactory.createLineBorder(Color.RED));
field3.setText("Your Passord");
frame.add(field3);

label8=new JLabel("Re-Password:");
label8.setBounds(130,440,100,20);
label8.setFont(new Font("Arial",Font.BOLD,15));
label8.setForeground(Color.BLACK);
frame.add(label8);

field4=new JTextField();
field4.setBounds(350,430,200,30);
field4.setBorder(BorderFactory.createLineBorder(Color.RED));
field4.setText("Re-Type pass");
frame.add(field4);

label9=new JLabel("Courses:");
label9.setBounds(130,490,70,20);
label9.setFont(new Font("Arial",Font.BOLD,15));
label9.setForeground(Color.BLACK);
frame.add(label9);

combobox4=new JComboBox();
combobox4.setBounds(350,480,200,30);
combobox4.addItem("Bsc Hons Computing");
combobox4.addItem("Bsc Hons BBA");
frame.add(combobox4);
```

```

label10=new JLabel("College:");
label10.setBounds(130,540,60,20);
label10.setFont(new Font("Arial",Font.BOLD,15));
label10.setForeground(Color.BLACK);
frame.add(label10);

combobox5=new JComboBox();
combobox5.setBounds(350,530,200,30);
combobox5.addItem("Itahari International College");
frame.add(combobox5);

label11=new JLabel("Semester:");
label11.setBounds(130,580,80,20);
label11.setFont(new Font("Arial",Font.BOLD,15));
label11.setForeground(Color.BLACK);
frame.add(label11);

combobox6=new JComboBox();
combobox6.setBounds(350,570,200,30);
combobox6.addItem("1");
combobox6.addItem("2");
combobox6.addItem("3");
frame.add(combobox6);

button3=new JButton();
button3.setText("Submit");
button3.setBounds(350,610,100,30);
frame.add(button3);
button3.addActionListener(this);

button4=new JButton();
button4.setText("Reset");
button4.setBounds(500,610,100,30);
frame.add(button4);
button4.addActionListener(this);

frame.setVisible(true);
}

public static void main(String args[]){
    new Assignment();
}
}

```

Output:

Student Register Form

File Help

Register a new Student

Name:

DOB:

Gender: ☒ Male ☐ Female

Address:

Mobile-number:

Password:

Re-Password:

Courses:

College:

Semester:

Student Register Form

File Help

Register a new Student

Name:

Ankit

DOB:

2004

August

27

Gender:

Address:

Mobile-number:

Password:

Re-Password:

Courses:

Bsc Hons Computing

College:

Itahari International College

Semester:

1

Submit

Reset

Information

Name: Ankit

Address: Dharan

Mobile-num: 9854858543

Password: jfkdsjfkfjas

Re-pass: jfjdfajdfj

Gender: Male

Dob: 2004, August, 27

Course: Bsc Hons Computing

College: Itahari International College

Semester: 1

OK

Student Register Form

File Help

Register a new Student

Name:

Ankit

DOB:

2004

▼

August

▼

27

▼

Gender:

☒ Male

☐ Female

Address:

Dharan

Mobile-number:

9854858543

Password:

jfkdsjkfjas

Re-Password:

jfjdfajdfj

Courses:

Bsc Hons Computing

▼

College:

Itahari International College

▼

Semester:

1

▼

Submit

Reset

Student Register Form

File Help

Register a new Student

Name:

DOB:

Year:

Month:

Day

Gender:

☐ Male

☐ Female

Address:

Mobile-number:

Password:

Re-Password:

Courses:

Bsc Hons Computing

College:

Itahari International College

Semester:

1

Submit

Reset