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;
```

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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";
          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
        //for reset button works
        field1.setText(" ");
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field2.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);
```

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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 1b=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);
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framehai.add(pn3);
 JLabel lb2=new JLabel("Address");
 1b2.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(1b2);
 JPanel pn4=new JPanel();
 pn4.setLayout(null);
 pn4.setBackground(Color.PINK);
 framehai.add(pn4);
 JLabel 1b3=new JLabel("Hoby");
 1b3.setBounds(20,80,40,20);
 1b3.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(1b3);
 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();
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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);
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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","Octuber","November","December"};
    // for(String addmonth:month){
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combobox2.addItem(addmonth);
for(int i=0;i<month.length;i++){</pre>
  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");
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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);
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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 1b=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 1b2=new JLabel("Address");
1b2.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(1b2);
JPanel pn4=new JPanel();
pn4.setLayout(null);
pn4.setBackground(Color.PINK);
framehai.add(pn4);
JLabel 1b3=new JLabel("Hoby");
1b3.setBounds(20,80,40,20);
1b3.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();
}
```





