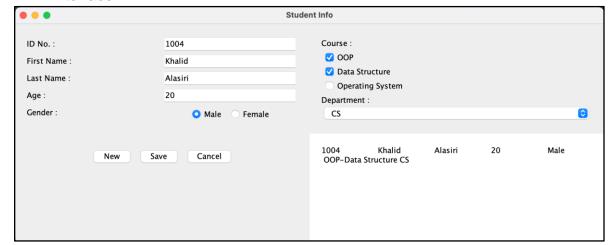
### **Student Lab Activity Report**

Course Code:	223 CSM-3
Course Name:	Advanced Object-Oriented Programming
Section Number:	6465
Deadline	31 / 3 / 2021
Student ID:	441814250
Student Name:	Omar Adel Badawy Ali

## **Activity 6: Student Info (GUI-2)**

Write a Java program that creates "student info" as shown in the following interface.



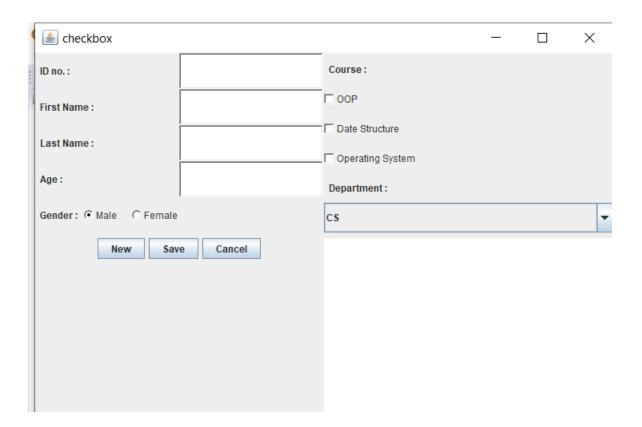
When <u>New</u> JButton is clicked all the data from the components must be cleared. When <u>Save</u> JButton is clicked all the data of the components must be displayed on the empty JTextArea in a proper format.

When <u>Cancel</u> JButton is clicked program should be exited (uses System.exit(0);) **NOTE**: Use a combination of layouts to get the desired outputs (BorderLayout, GridLayout, and FlowLayout).

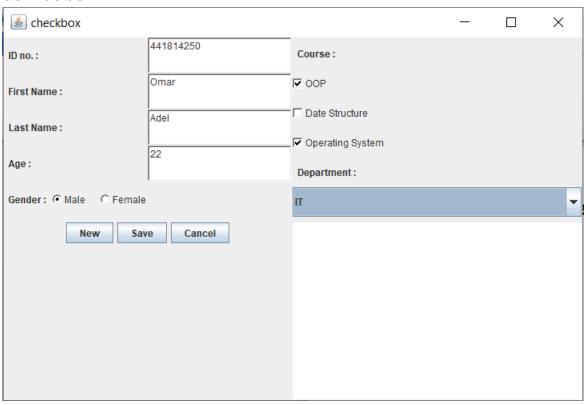
Points out of 10	
Date	23 / 3 / 2021
Instructor	Khalid Alasiri

### Your Answer:

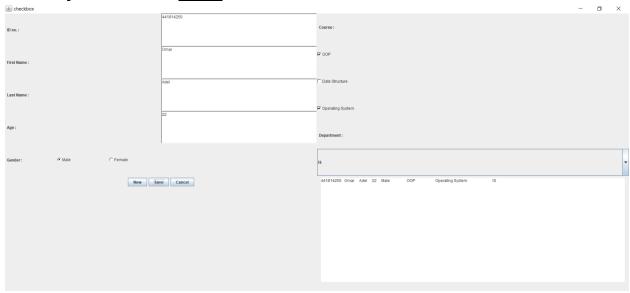
## **Program When opening**

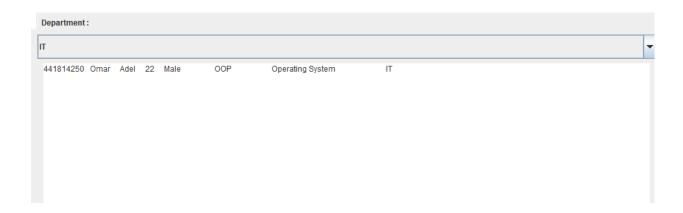


# When filling textfields and selecting the checkbox and choosing from combobox

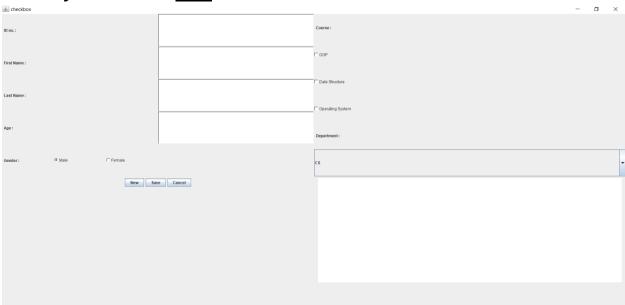


## When you clicked Save button





## When you clicked new button



### **Code photos**

```
MiniProject.java \( \times \)
           ▶ 😅 java ▶ 🥵 src ▶ 🏭 javaps ▶ 🔒 MiniProject ▶
                    1 package javaps;
                    3⊕ import javax.swing.*;
                class MiniProject {
    private JFrame f;
    private JPanel p1 , p2 ,p3, p4,p5,p6;
    private JLabel l1 , l2 , l3 , l4 , l5 , l6 , l7 ;
    private TextField tx1 , tx2 , tx3, tx4 ;
    private CheckboxGroup cg;
    private JButton b1 , b2 , b3 ;
    private Meckbox cb1 , cb2 , cb3 ;
    private JComboBox c;
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20<sup>©</sup>
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                                         private JComboBox c;
private JTextArea ta1;
                                         MiniProject(){
                                                     f = new JFrame();
f.setVisible(true);
f.setSize(500,500);
                                                       f.setTitle("checkbox"):
                                                      f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                                                     p1 =new JPanel(new GridLayout(2,2) );
p2 =new JPanel(new GridLayout(5,2) );
p3 =new JPanel(new GridLayout(6,1) );
p4 =new JPanel();
p5 =new JPanel();
p6 =new JPanel(new GridLayout(1,3) );
                                                     l1=new JLabel(" ID no.:");
12=new JLabel(" First Name:");
13=new JLabel(" Last Name:");
14=new JLabel(" Age:");
15=new JLabel(" Gender:");
16=new JLabel(" Course:");
                                                                                                                                                                                                                                                                                                                                                                                                 ▶ 😅 java ▶ 🥵 src ▶ 🏭 javaps ▶ 🚇 MiniProject ▶
                                             16=new Jlabel(" Course : ");

17=new Jlabel(" Department : ");

tx1 = new TextField(5);

tx2 = new TextField(5);
                                           tx1 = new TextField(5);
tx2 = new TextField(5);
tx3 = new TextField(5);
tx4 = new TextField(5);
tx4 = new TextField(5);
tg = new Checkbox(roup();
Checkbox c1 = new Checkbox("Male",cg,true);
Checkbox c2 = new Checkbox("Female",cg,false);
b1 = new JButton("New");
b2 = new JButton("Cancel");
cb1 = new Checkbox("Op");
cb2 = new Checkbox("Op");
cb3 = new Checkbox("Operating System");
String[] items=("CS", "IS", "IT", "CE");
c = new JComboBox (items);
ta1 = new JTextArea(20,85);
b1.addActionListener(new ActionListener(){
    public void actionPerformed(ActionEvent e)
    {
        tx1.gettelectedText().toString();
    }
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        45
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        60
61
                                                                        tx1.getSelectedText().toString();
                                                                      txl.setFext("");
tx2.getSelectedText().toString();
tx2.setText("");
tx3.getSelectedText().toString();
tx3.setText("");
tx4.getSelectedText().toString();
        62
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                                                                       tx4.setText("");
cb1.setState(false);
                                                                       cb2.setState(false);
cb3.setState(false);
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                                                                       c1.setState(true);
                                                           c.setSelectedItem("CS");
                                                           tal.setText("");
```

```
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                              });
                      b2.addActionListener(new ActionListener(){
    public void actionPerformed(ActionEvent e)
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                                  String n = tx1.getText().toString();
String s = tx2.getText().toString();
                                   String m = tx3.getText().toString();
String l = tx4.getText().toString();
                                    ta1.append("" + n+ " "+s+"
                                                                                      "+m+"
                                                                                                          "+1+"
                                    tal.append(cg.getSelectedCheckbox().getLabel().toString()+ "\t");
                                          if(cb1.getState())
                                                tal.append(cbl.getLabel().toString() + "\t");
                                          if(cb2.getState())
                                                tal.append(cb2.getLabel().toString() + "\t");
                                          if(cb3.getState())
                                                ta1.append(cb3.getLabel().toString() + "\t");
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                                          tal.append(c.getSelectedItem().toString());
  112
  113
                             }
});
 114
                                                                                                                                                                                                         ▶ 🔐 java ▶ 🕮 src ▶ 🏭 javaps ▶ 🔝 MiniProject ▶
  109
                                         }
  110
                                          tal.append(c.getSelectedItem().toString());
  111
  112
  113
114
                              }
});
  115
116
                       b3.addActionListener(new ActionListener(){
   public void actionPerformed(ActionEvent e)
   {System.exit(0); }
});
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                       p2.add(11);
p2.add(tx1);
p2.add(12);
p2.add(tx2);
                       p2.add(tx2);
p2.add(13);
p2.add(tx3);
p2.add(14);
p2.add(tx4);
p2.add(p6);
                       p2.add(p6);
p6.add(15);
p6.add(c1);
p6.add(c2);
p4.add(b1);
p4.add(b2);
                       p4.add(b2);
p4.add(b3);
p3.add(16);
p3.add(cb1);
p3.add(cb2);
p3.add(cb3);
p3.add(17);
                        p3.add(17);
                        p3.add(c);
                        p1.add(p2);
p1.add(p3);
p1.add(n4):
  143
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 145
```

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```
ℳ MiniProject.java 

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▶ 🔛 java ▶ 🥵 src ▶ 🚜 javaps ▶ 🧟 MiniProject ▶
                     p2.add(13);
p2.add(tx3);
                     p2.add(14);
                     p2.add(p6);
                     p6.add(15);
p6.add(c1);
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                     p6.add(c2);
p4.add(b1);
                     p4.add(b2);
                     p4.add(b3);
                     p3.add(16);
                     p3.add(cb1);
p3.add(cb2);
                     p3.add(cb3);
p3.add(17);
                     p3.add(c);
                     p1.add(p2);
p1.add(p3);
                     p1.add(p4);
p1.add(p5);
                     p5.add(ta1);
                     f.add(p1);
                     p6.add(15,BorderLayout.WEST);
p6.add(c1,BorderLayout.CENTER);
                     p6.add(c2,BorderLayout.EAST);
               public static void main(String[ ] args) {
                     new MiniProject();
160 }
161
 162
```

#### The code

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

class MiniProject {
    private JFrame f;
    private JPanel p1 , p2 ,p3, p4,p5,p6;
    private JLabel I1 , I2 , I3 , I4 , I5 , I6 , I7 ;
    private TextField tx1 , tx2 , tx3, tx4 ;
    private CheckboxGroup cg;
    private JButton b1 , b2 , b3 ;
    private Checkbox cb1 , cb2 , cb3 ;
```

```
private JComboBox c;
private JTextArea ta1;
MiniProject(){
     f = new JFrame();
     f.setVisible(true);
     f.setSize(500,500);
     f.setTitle("checkbox");
     f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
     p1 = new JPanel(new GridLayout(2,2));
     p2 = new JPanel(new GridLayout(5,2));
     p3 = new JPanel(new GridLayout(6,1));
     p4 =new JPanel();
     p5 =new JPanel();
     p6 = new JPanel(new GridLayout(1,3));
     I1=new JLabel(" ID no.: ");
     12=new JLabel(" First Name : ");
     I3=new JLabel(" Last Name : ");
     I4=new JLabel(" Age: ");
     I5=new JLabel(" Gender : ");
     l6=new JLabel(" Course : ");
     17=new JLabel(" Department : ");
     tx1 = new TextField(5);
     tx2 = new TextField(5);
     tx3 = new TextField(5);
     tx4 = new TextField(5);
     cg = new CheckboxGroup();
     Checkbox c1 = new Checkbox("Male",cg,true);
     Checkbox c2 = new Checkbox("Female",cg,false);
     b1 = new JButton( "New");
     b2 = new JButton("Save");
     b3 = new JButton( "Cancel");
```

```
cb1 = new Checkbox("OOP");
    cb2 = new Checkbox("Date Structure");
    cb3 = new Checkbox("Operating System");
    String[] items={"CS","IS","IT","CE"};
    c = new JComboBox (items);
    ta1 = new JTextArea(20,85);
    b1.addActionListener(new ActionListener(){
          public void actionPerformed(ActionEvent e)
          {
               tx1.getSelectedText().toString();
               tx1.setText("");
               tx2.getSelectedText().toString();
               tx2.setText("");
               tx3.getSelectedText().toString();
               tx3.setText("");
               tx4.getSelectedText().toString();
               tx4.setText("");
                cb1.setState(false);
                cb2.setState(false);
                cb3.setState(false);
                c1.setState(true);
c.setSelectedItem("CS");
    ta1.setText("");
          }
          });
    b2.addActionListener(new ActionListener(){
          public void actionPerformed(ActionEvent e)
          {
               String n = tx1.getText().toString();
               String s = tx2.getText().toString();
```

```
String m = tx3.getText().toString();
                    String I = tx4.getText().toString();
                        ta1.append("" + n+ " "+s+" "+m+" "+l+"
                                                                          ");
ta1.append(cg.getSelectedCheckbox().getLabel().toString()+ "\t");
                              if(cb1.getState())
                                   ta1.append(cb1.getLabel().toString() +
"\t");
                              }
                              if(cb2.getState())
                                   ta1.append(cb2.getLabel().toString() +
"\t");
                             }
                              if(cb3.getState())
                              {
                                   ta1.append(cb3.getLabel().toString() +
"\t");
                             }
                              ta1.append(c.getSelectedItem().toString());
                  }
                  });
```

```
b3.addActionListener(new ActionListener(){
     public void actionPerformed(ActionEvent e)
     {System.exit(0); }
     });
p2.add(l1);
p2.add(tx1);
p2.add(l2);
p2.add(tx2);
p2.add(l3);
p2.add(tx3);
p2.add(l4);
p2.add(tx4);
p2.add(p6);
p6.add(l5);
p6.add(c1);
p6.add(c2);
p4.add(b1);
p4.add(b2);
p4.add(b3);
p3.add(l6);
p3.add(cb1);
p3.add(cb2);
p3.add(cb3);
p3.add(I7);
p3.add(c);
p1.add(p2);
p1.add(p3);
p1.add(p4);
p1.add(p5);
p5.add(ta1);
f.add(p1);
p6.add(I5,BorderLayout.WEST);
p6.add(c1,BorderLayout.CENTER);
```

```
p6.add(c2,BorderLayout.EAST);

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