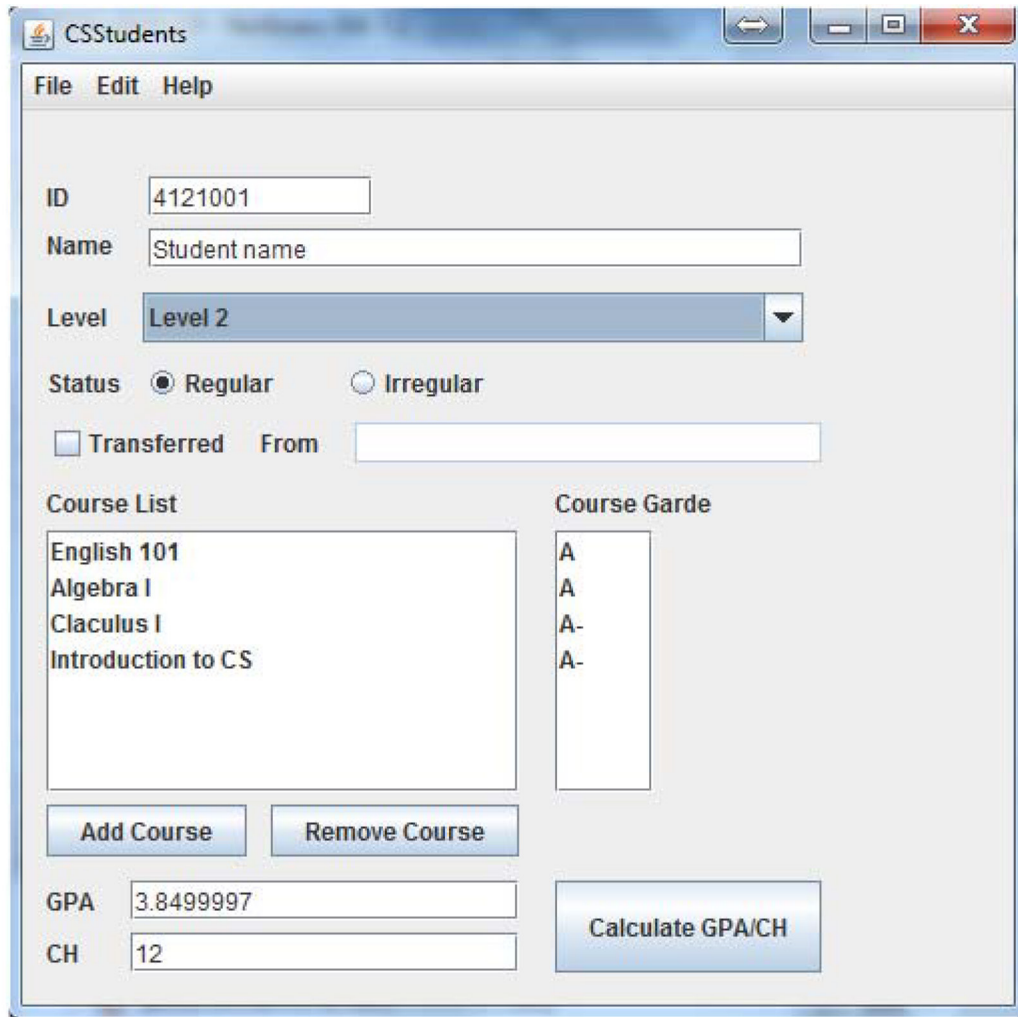


Fundamentals of Programming II Lab 06



1	<pre> jCheckBox1ActionPerformed if (jCheckBox1.isSelected()) { jTextField3.enable(true); } else { jTextField3.enable(false); } </pre>
2	<pre> Calculate GPA/CH int CH = 0; float GPA = 0; String grade; for (int i = 0; i < jList2.getModel().getSize(); i++) { </pre>

```
grade = jList2.getModel().getElementAt(i).toString();
switch (grade) {
    case "A":
        CH += 3;
        GPA += (3 * 4);
        break;
    case "A-":
        CH += 3;
        GPA += (3 * 3.7);
        break;
    case "B+":
        CH += 3;
        GPA += (3 * 3.3);
        break;
    case "B":
        CH += 3;
        GPA += (3 * 3);
        break;
    case "B-":
        CH += 3;
        GPA += (3 * 2.7);
        break;
    case "C+":
        CH += 3;
        GPA += (3 * 2.3);
        break;
    case "C":
        CH += 3;
        GPA += (3 * 2);
        break;
    case "C-":
        CH += 3;
        GPA += (3 * 1.7);
        break;
    case "D+":
        CH += 3;
```

```

        GPA += (3 * 1.3);
        break;
    case "D":
        CH += 3;
        GPA += (3 * 1);
        break;
    case "F":

        GPA += (3 * 0);
        break;
    }
}
jTextField4.setText(Float.toString(GPA / CH));
jTextField5.setText(Integer.toString(CH));

```

3 Add Element to list box

```

DefaultListModel dlm1 = new DefaultListModel();

String course = JOptionPane.showInputDialog(this, "Enter Course
Name?");
String grade = JOptionPane.showInputDialog(this, "Enter Course
Grade?");

for (int i = 0; i < jList1.getModel().getSize(); i++) {
    dlm1.addElement(jList1.getModel().getElementAt(i));
}
dlm1.addElement(course);
jList1.setModel(dlm1);
DefaultListModel dlm2 = new DefaultListModel();
dlm2.removeAllElements();
for (int i = 0; i < jList2.getModel().getSize(); i++) {
    dlm2.addElement(jList2.getModel().getElementAt(i));
}
dlm2.addElement(grade);
jList2.setModel(dlm2);

```

4	Remove element from check box
	<pre>String num = JOptionPane.showInputDialog(this, "Enter Course number (starting from 1)?"); DefaultListModel dlm1 = new DefaultListModel(); for (int i = 0; i < jList1.getModel().getSize(); i++) { dlm1.addElement(jList1.getModel().getElementAt(i)); } dlm1.removeElementAt(Integer.parseInt(num) - 1); jList1.setModel(dlm1); DefaultListModel dlm2 = new DefaultListModel(); for (int i = 0; i < jList2.getModel().getSize(); i++) { dlm2.addElement(jList2.getModel().getElementAt(i)); } dlm2.removeElementAt(Integer.parseInt(num) - 1); jList2.setModel(dlm2);</pre>
5	Help/About
	<pre>javax.swing.JOptionPane.showMessageDialog(this, "This Application was created by me.");</pre>
6	File/Exit
	<pre>System.exit(1);</pre>
7	Edit/Clear
	<pre>jTextField1.setText(""); jTextField2.setText(""); jTextField3.setText(""); jTextField4.setText(""); jTextField5.setText(""); jComboBox1.setSelectedIndex(-1); jCheckBox1.setSelected(false);</pre>

```

ButtonGroup bg = new ButtonGroup();
bg.add(jRadioButton1);
bg.add(jRadioButton2);
bg.clearSelection();
DefaultListModel dlm1 = new DefaultListModel();
jList1.setModel(dlm1);
jList2.setModel(dlm1);

```

8 Save

```

if (jFileChooser1.showSaveDialog(this) == 0) {
    try {
        FileOutputStream fos=new
FileOutputStream(jFileChooser1.getSelectedFile().toString());
        DataOutputStream dos=new DataOutputStream(fos);
        dos.writeChars(jTextField1.getText());
        dos.writeChar('#');
        dos.writeChars(jTextField2.getText());
        dos.writeChar('#');
        dos.writeInt(jComboBox1.getSelectedIndex());
        dos.writeBoolean(jRadioButton1.isSelected());
        dos.writeBoolean(jRadioButton2.isSelected());
        dos.writeBoolean(jCheckBox1.isSelected());
        dos.writeChars(jTextField3.getText());
        dos.writeChar('#');
        dos.writeInt(jList1.getModel().getSize());
        for (int i = 0; i < (jList1.getModel().getSize()); i++) {
            dos.writeChars(jList1.getModel().getElementAt(i).toString());
            dos.writeChar('#');
        }
        dos.writeInt(jList2.getModel().getSize());
        for (int i = 0; i < (jList2.getModel().getSize()); i++) {
            dos.writeChars(jList2.getModel().getElementAt(i).toString());
            dos.writeChar('#');
        }
        dos.writeChars(jTextField4.getText());
    }
}

```

```

dos.writeChar('#');
dos.writeChars(jTextField5.getText());
dos.writeChar('#');
dos.close();
} catch (Exception e) {
    javax.swing.JOptionPane.showMessageDialog(this, "Error
accessing : " + jFileChooser1.getSelectedFile().toString());
}
}

```

9 Open

```

jMenuItem5ActionPerformed(null);
if (jFileChooser1.showOpenDialog(this) == 0) {
    try {
        FileInputStream fis=new
FileInputStream(jFileChooser1.getSelectedFile().toString());
        DataInputStream dis=new DataInputStream(fis);
        String st="";
        char ch;
        while((ch=dis.readChar())!='#')
            st=st+ch;
        jTextField1.setText(st);
        st="";
        while((ch=dis.readChar())!='#')
            st=st+ch;
        jTextField2.setText(st);
        st="";
        jComboBox1.setSelectedIndex(dis.readInt());
        jRadioButton1.setSelected(dis.readBoolean());
        jRadioButton2.setSelected(dis.readBoolean());
        jCheckBox1.setSelected(dis.readBoolean());
        while((ch=dis.readChar())!='#')
            st=st+ch;
        jTextField3.setText(st);
        st="";
    }
}

```

```

int len = dis.readInt();
DefaultListModel dlm1 = new DefaultListModel();
for (int n = 0; n < len; n++) {
    while((ch=dis.readChar())!='#')
        st=st+ch;
    dlm1.addElement(st);
    st="";
}
jList1.setModel(dlm1);
len = dis.readInt();
DefaultListModel dlm2 = new DefaultListModel();
for (int n = 0; n < len; n++) {
    while((ch=dis.readChar())!='#')
        st=st+ch;
    dlm2.addElement(st);
    st="";
}
jList2.setModel(dlm2);
while((ch=dis.readChar())!='#')
    st=st+ch;
jTextField4.setText(st);
st="";
while((ch=dis.readChar())!='#')
    st=st+ch;
jTextField5.setText(st);
st="";
} catch (Exception e) {
    javax.swing.JOptionPane.showMessageDialog(this, "Error: " +
e.getMessage());
}
}

```

10 Construct

```

FileFilter ff = new FileNameExtensionFilter("Data Files", "dat");
jFileChooser1.addChoosableFileFilter(ff);

```

```
jComboBox1.setSelectedIndex(-1);  
ButtonGroup bg = new ButtonGroup();  
bg.add(jRadioButton1);  
bg.add(jRadioButton2);
```