

# Further rev

## LU4-5

```
public class PROG6112_LU5_rev {  
  
    public static void main(String[] args) {  
        // TODO code application logic here  
        try {  
            BufferedWriter file = new BufferedWriter (new FileWriter ("file.txt"));  
            //PrintWriter file = new PrintWriter("file.txt");  
            file.write("a record\n");  
            file.write("another record");  
            file.close();  
        } catch (IOException e) {  
            e.printStackTrace();  
        }  
  
        try (BufferedReader file = new BufferedReader (new FileReader ("file.txt"))){  
            String record;  
  
            while ((record = file.readLine()) != null) {  
                String[] parts = record.split(",");  
  
                String name = parts[0];  
                int grade = Integer.parseInt(parts[1]);  
            }  
        } catch (IOException e) {  
        }  
    }  
}
```

```
    e.printStackTrace();

}

try (RandomAccessFile file = new RandomAccessFile("file.txt", "rw")) {

    file.writeUTF("ben");

    file.writeInt(22);

} catch (IOException e) {

    e.printStackTrace();

}

try (RandomAccessFile file = new RandomAccessFile("file.txt", "r")) {

    file.seek(file.readUTF().length() +2);

    String name = file.readUTF();

    int age = file.readInt();

} catch (IOException e) {

    e.printStackTrace();

}

/*
file.getFilePointer();

file.length();

file.seek(position);

IOException

EOFException

FileNotFoundException

NumberFormatException
```

```
 */  
}  
  
}  
  
/*  
filewriter/reader  
bufferedwriter/reader  
printwriter  
randomaccessfile  
*/
```

## LU6

```
public class PROG6112_LU6_rev {  
  
    public static void main(String[] args) {  
  
        // Create a window (JFrame)  
  
        JFrame win = new JFrame("My First GUI");  
  
        win.setSize(700, 300);  
  
        win.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
  
        // Create a panel to hold components  
  
        JPanel panel = new JPanel();  
  
        win.add(panel);  
  
        panel.setLayout(new FlowLayout());  
  
        panel.setBackground(Color.RED);  
  
        JLabel label = new JLabel("you can't enter text here");  
  
        label.setToolTipText("icon description");  
  
        panel.add(label);  
  
        //=====objects=====  
  
        JTextField header = new JTextField("print button");  
  
        JTextArea subHeader = new JTextArea("");  
  
        JScrollPane scrollPane = new JScrollPane(subHeader);  
  
        scrollPane.setVerticalScrollBarPolicy(JScrollPane.VERTICAL_SCROLLBAR_ALWAYS);
```

```
scrollPane.setHorizontalScrollBarPolicy(JScrollPane.HORIZONTAL_SCROLLBAR_NEVER);
scrollPane.setPreferredSize(new Dimension(100, 100));

panel.add(header);
//panel.add(subHeader);
panel.add(scrollPane);

//=====Create a button=====
JButton button = new JButton("Click to print");
panel.add(button);

// Add an event listener to the button
button.addActionListener( new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        //String strInput= inputBar.getText();
        //output.setText(strInput);
    }
});

/*
panel.addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent e) {
        System.out.println("Mouse clicked at: " + e.getX() + ", " + e.getY());
    }
});
*/

```

```
//=====Make it visible=====

win.pack(); // Adjusts the frame size to fit its contents

win.setVisible(true);

}

}
```

## JComboBox

```
public class PROG6112_rev2 extends Win {  
  
    public JComboBox c1;  
    public JLabel l1;  
  
    public void main(String[] args) {  
        JFrame win = new JFrame("testGUI");  
        win.setSize(300, 200);  
        win.setLayout(new FlowLayout());  
        win.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
  
        JButton button = new JButton("click me");  
        win.add(button);  
  
        //=====objects=====  
        JTextField header = new JTextField("print button");  
        JTextArea subHeader = new JTextArea("click this button,"  
            + "and text will be printed");  
        win.add(header);  
        win.add(subHeader);  
  
        String[] options = {"option 1", "option 2", "option 3"};  
        c1 = new JComboBox(options);  
  
        c1.setSelectedIndex(3);
```

```
Win s = new Win();
c1.addItemListener(s);

c1.setEditable(true);

win.add(c1);

JCheckBox check = new JCheckBox("accept terms");
win.add(check);

if(check.isSelected()) System.out.println("box ticked");

//=====Make it visible=====
win.setVisible(true);

}

public void itemStateChanged(ItemEvent e) {
    if (e.getSource() == c1) {
        l1.setText(c1.getSelectedItem() + " selected");
    }
}

/*

```

Describe the swing components;

Use the JFrame;

Extend the JFrame;

Add JTextField, JButtons and tool tips to a JFrame;

Use the JLabel Class;

Use a layout manager;

Use the content panels;

Use colour and JPanels to increase layout options;

Create JscrollPanels;

Handle mouse events and using menus.

\*/

//=====

// END-OF-FILE

//=====