COMPROG2: LABORATORY EXERCISE 7
GRAPHICAL USER INTERFACE PART 2

WEEK	12	DATE	APRIL 26, 2024
SECTION	1CCSAD	SCORE	

ACTIVITY

Type the following codes and screenshot your output during runtime.

```
import java.awt.event.*;
import javax.swing.*;
public class ButtonExample {

        public static void main(String[] args) {
            JFrame f=new JFrame("Button Example");
            f.getContentPane().setLayout(null);
            final JTextField tf=new JTextField();
            tf.setBounds(50,50, 150,20);
            JButton b=new JButton("Click Here");
            b.setBounds(50,100,95,30);
            b.addActionListener(new ActionListener(){
        public void actionPerformed(ActionEvent e){
                    tf.setText("");
                }
            });
            f.getContentPane().add(b);
            f.getContentPane().add(tf);
            f.setSize(400,400);
            f.setVisible(true);
        }
        }
```

```
import javax.swing.*;
import java.awt.event.*;
public class PasswordField1 {
    public static void main(String[] args) {
    JFrame f=new JFrame("Password Field Example");
    f.getContentPane().setLayout(null);
     final JLabel label = new JLabel();
     label.setBounds(20,150, 200,50);
     final JPasswordField value = new JPasswordField();
     value.setBounds(100,75,100,30);
     JLabel l1=new JLabel("Username:");
        l1.setBounds(20,20, 80,30);
        JLabel l2=new JLabel("Password:");
        l2.setBounds(20,75, 80,30);
        JButton b = new JButton("Login");
        b.setBounds(100,120, 80,30);
        final JTextField text = new JTextField();
        text.setBounds(100,20, 100,30);
                f.getContentPane().add(value);
                f.getContentPane().add(l1);
                f.getContentPane().add(label);
                f.getContentPane().add(l2);
                f.getContentPane().add(b);
                f.getContentPane().add(text);
                f.setSize(300,300);
                f.setVisible(true);
                b.addActionListener(new ActionListener() {
                public void actionPerformed(ActionEvent e) {
                   String data = "Username " + text.getText();
                   data += ", Password: "   + new String(value.getPassword());
                   label.setText(data);
                }
             });
}
}
```

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

public class TextEx1 extends JFrame{
        JLabel lbl;

        public TextEx1(){
                lbl=new JLabel ("Enter your name:", JLabel.CENTER);
                getContentPane().add(lbl);
                setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        }

        public static void main(String[] args) {
                TextEx1 tex = new TextEx1();

                tex.setTitle("JLabel Demo");
                tex.setSize(250,100);
                tex.setVisible(true);
        }
}
```

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

public class TextEx2 extends JFrame{
	JLabel lbl;
	JTextField text;

	public TextEx2(){
		lbl=new JLabel ("Enter your name: ");
		text=new JTextField(15);
		getContentPane().setLayout(new FlowLayout());
		getContentPane().add(lbl);
		getContentPane().add(text);

		setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
	}

	public static void main(String[] args) {
		TextEx2 tex = new TextEx2();

		tex.setTitle("JTextField Demo");
		tex.setSize(300,100);
		tex.setVisible(true);
	}
}
```

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

public class JTextAreaDemo extends JFrame {
        JTextArea resultArea = new JTextArea(5,20);

        public JTextAreaDemo( )
        {
                resultArea.setText("Enter more text to see scrollbars");
                JScrollPane scrollingArea = new JScrollPane(resultArea);

                JPanel con = new JPanel( );
                con.setLayout(new BorderLayout( ));
                con.add(scrollingArea, BorderLayout.CENTER);

                this.setContentPane(con);
                this.setTitle("JTextArea Dmeo");
                this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                this.pack();

        }

        public static void main(String[] args) {
                JFrame aFrame = new JTextAreaDemo( );
                aFrame.setVisible(true);
        }
}
```

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

public class JComboDemo extends JFrame {
        JLabel lbl;
        JComboBox fruitChoice;

        public JComboDemo( ) {
                lbl = new JLabel ("Select a fruit: ");
                fruitChoice = new JComboBox( );
                fruitChoice.addItem("Apple");
                fruitChoice.addItem("Banana");
                fruitChoice.addItem("Cherry");
                getContentPane().setLayout(new FlowLayout( ));
                getContentPane().add(lbl);
                getContentPane().add(fruitChoice);

                setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        }

        public static void main(String[] args) {
                JComboDemo tex = new JComboDemo( );
                tex.setTitle("JComboBox Demo");
                tex.setSize(200,150);
                tex.setVisible(true);
        }
}
```

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

public class JComboBoxTest extends JFrame {
        JComboBox combo;
        JTextField txt;
        JLabel lbl;
        Container con = getContentPane();

public JComboBoxTest(){
        super("Sample");
                setDefaultCloseOperation (JFrame.EXIT_ON_CLOSE);

        String [ ] subject = { "Math", "Science", "English", "Filipino"};
        lbl= new JLabel ("Choose a subject:");
        combo= new JComboBox(subject);
        txt= new JTextField(10);
        combo.setBackground(Color.BLUE);
        combo.setForeground(Color.YELLOW);
        con.add(lbl);
        con.add(combo);
        con.add(txt);
        con.setLayout(new FlowLayout());
        combo.addItemListener (new ItemListener(){
                public void itemStateChanged (ItemEvent e) {
                        String str= (String)combo.getSelectedItem();
                        txt.setText(str);
                }
        } );
}
public static void main(String[ ] args){
        JComboBoxTest frame = new JComboBoxTest();
        frame.setSize(350,150);
        frame.setVisible(true);

        }
}
```