

Experiment no. 14

45

date: 11/10/24

Roll no: B014

Aim: To develop GUI applications using swing control.

### Theory:

- Java swing is a part of Java foundation classes [JFC] that is used to create window based applications.

It is built on top of AWT

- Unlike AWT, Java swing provides platform independency and lightweight components.

- The javax.swing package classes for Java swing API such as:

- JButton, JTextField, JTextArea, JLabel etc.

### procedure:

### program:

```
import javax.swing.*;
```

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

```
import javax.swing.*;
```

```
public class Swing
```

```
{
```

```
    public static void main (String[] args)
```

```
{
```

```
    JFrame f = new JFrame ("swing components");
```

```
    f.setDefaultCloseOperation (JFrame.EXIT_ON_CLOSE);
```

```
    f.setSize (400, 300);
```

```
    f.setLayout (new FlowLayout());
```

```
JLabel l = new JLabel ("enter name :");
f.add(l);
```

```
JTextField t = new JTextField (20);
f.add (t);
```

```
JLabel l1 = new JLabel ("enter email:");
f.add (l1);
```

```
JTextField t1 = new JTextField (20);
f.add (t1);
```

```
JLabel l2 = new JLabel ("enter phone no. :");
f.add (l2);
```

```
JTextField t2 = new JTextField (20);
f.add (t2);
```

```
JButton b = new JButton ("submit");
f.add (b);
```

```
String[] option = { "RED", "GREEN", "BLUE" };
```

```
JComboBox<String> c = new JComboBox<> (option);
f.add(c);
```

```
JTextArea txt = new JTextArea (5, 20);
```

```
txt.setLineWrap (true);
```

```
txt.setWrapStyleWord (true);
```

```
f.add (new JScrollPane (txt));
```

```
b.addActionListener (new ActionListener ()
{
```

@Override

```
public void actionPerformed (new ActionListener() ActionEvent e)
{
```

```
String name = t.getText();
```

 Swing components

Enter your name:

rudraa

Enter your email:

abc@gmail.com

Enter your phone no.:

9829983401

Submit

BLUE ▼

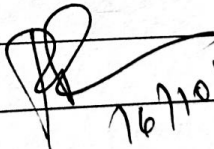
Name: rudraa, Email: abc@gmail.com,  
Contact: 9829983401, Selected: BLUE

```

String email = t1.getText();
String contact = t2.getText();
String select = (String) c.getSelectedItems();
t.append("Name: " + name + " Email: " + email +
        " Contact: " + contact + " Selected: " + select + "\n");
t.setText(" ");
}
}
f.setVisible(true);
}

```

Conclusion: Hence, we have developed GUI application using swing control.

  
16/10/24