

## 1. Java swing using object of JFrame

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

public class FirstSwingExample {

    public static void main(String args[]) {

        JFrame f = new JFrame();

        JButton b = new JButton("button");
        b.setBounds(130,130,90,90);

        f.add(b);

        f.setSize(300,400);
        f.setLayout(null);
        f.setVisible(true);

    }

}
```

## 2. Java swing using inheritance of JFrame

```
package swing;

import javax.swing.*;

public class JSwingExtendJFrame extends JFrame{
    JFrame f;
    JSwingExtendJFrame(){
        JButton b = new JButton("button");
        b.setBounds(100,100,90,90);

        add(b);
        setSize(300,400);
        setLayout(null);
        setVisible(true);
    }

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        new JSwingExtendJFrame();
    }
}
```

### 3. Java textfield example

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

public class JtextFieldExample {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        JFrame f = new JFrame("Example text fields");
        JTextField t1,t2;

        t1 = new JTextField();
        t1.setBounds(100,130,90,30);

        t2 = new JTextField();
        t2.setBounds(100,180,90,30);

        f.add(t1);
        f.add(t2);

        f.setSize(300,300);
        f.setLayout(null);
        f.setVisible(true);

    }

}
```

#### Exercise 1:

Write down a code where there are two textfields, t1 and t2, and button beneath the two textfields that reads login, Place all 3 components in the same frame. Manually specify the size of the components with respect to your frame size

## 4. Java ActionListener Example

```
package swing;

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

public class ActionListenerExample implements ActionListener{

    JTextField t1, t2;
    JButton b;

    ActionListenerExample(){
        JFrame f = new JFrame();

        t1 = new JTextField();
        t1.setBounds(100,130,90,30);

        t2 = new JTextField();
        t2.setBounds(130,130,90,30);

        b = new JButton("check");
        b.setBounds(230,130,90,30);

        b.addActionListener(this);

        f.add(t1);
        f.add(t2);
        f.add(b);

        f.setSize(400,400);
        f.setLayout(null);
        f.setVisible(true);
    }

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub

        String s1=t1.getText();
        String s2=t2.getText();
        int a=Integer.parseInt(s1);
        int b=Integer.parseInt(s2);
    }
}
```

```
        System.out.printf("the numbers are: %d and %d", a, b);

    }

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        new ActionListenerExample();

    }

}
```