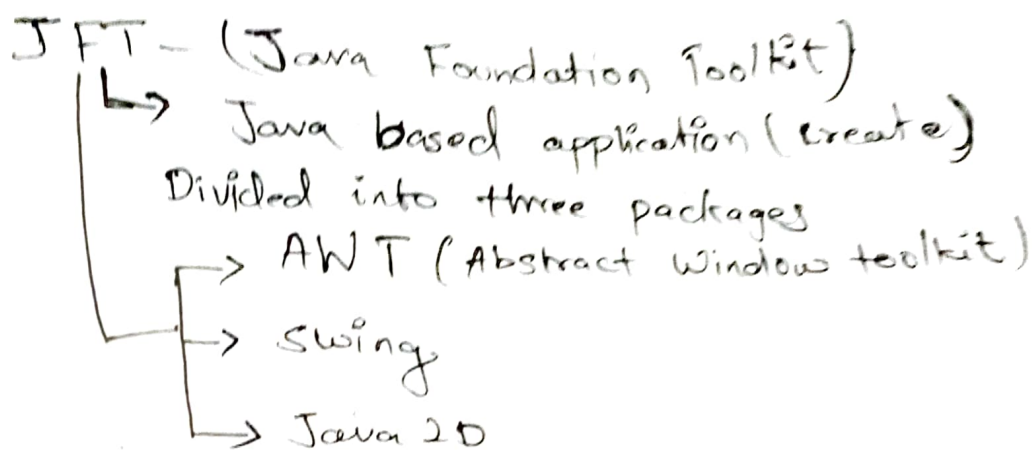


In Java, Swing is a framework (created) for Java application.



What is Java Swing

* Swing is a GUI widget toolkit created for Java based applications.

* It is a lightweight toolkit (entirely written in java and has high level display)

* It is a part of Java Foundation toolkit

Components in Swing

JLabel

JList

JTable

JComboBox

JSlider

JMenu

JAbstractButton

JButton

JFrame

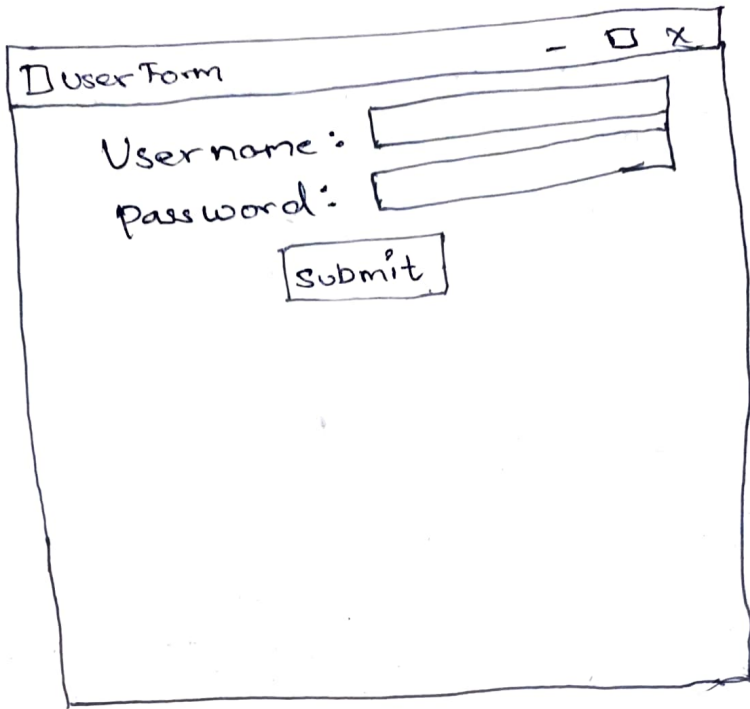
* Importing Swing package.

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

Example program;

```
package swing;  
import java.awt.FlowLayout;  
import javax.swing.*;  
public class SwingDemo {  
    public static void main (String [] args) {  
        JFrame f = new JFrame ("User form");  
        f.setVisible (true);  
        f.setSize (300, 400);  
        f.setLayout (new FlowLayout ());  
        JLabel l1 = new JLabel ("User name:");  
        f.add (l1);  
        JTextField t1 = new JTextField (20);  
        f.add (t1);  
        JLabel l2 = new JLabel ("password:");  
        f.add (l2);  
        JTextField t2 = new JTextField (20);  
        f.add (t2);  
        JButton b = new JButton ("Submit");  
        f.add (b);  
    }  
}
```

output;



Program explanation;

- * Import `javax.swing.*` is used to import the java Swing package.
- * `JFrame` is a class in a java swing package, which takes an title as an argument
- * `f.setVisible()` is used to visible the frame. Only if `f.setVisible(True)` is given the frame will be displayed.
- * `f.setSize()` is used to determine the size of the frame which we create.
- * `f.setLayout(new FlowLayout());` is a function used to place all component in the centre of the frame, which require to import `FlowLayout`, i.e. `import java.awt.FlowLayout;`

* JLabel is a component which carries an argument;

* F.add () is used to add components to the frame.

* This how we have to create all the components and add to the frame.

Example 2;

This example comes under inheritance method. here we directly inherit the Java Swing component class like (JFrame) or other components.

Program:-

```
import javax.swing.*;  
public class MySwingclass extends JFrame {  
    public MySwingclass () // Default constructor  
    {  
        setTitle ("My Swing Application"); // To set title  
        setSize (400, 300); // To set size of frame  
        setDefaultCloseOperation (JFrame.EXIT_ON_CLOSE);  
    }  
    public static void main (String [] args)  
    {  
        MySwingclass n1 = new MySwingclass ();  
        n1.setVisible (true);  
    }  
}
```