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An investment in Knowledge pays the best interest….

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AWT & Swing in Java

GUI Part :-

-> GUI is Graphical User Interface

-> Java Provides following GUI Part :-

1. AWT (Abstract Window Toolkit)
2. Swing
3. Applet
4. javafx

=> AWT

-> AWT is an API used to develop Desktop Based or Window Based Application

-> AWT has a lot of disadvantages and due to this, Swing API was created on the basis of AWT

=> Swing :-

-> Swing is also a GUI part which is used to create Desktop Based Applications

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=> Difference between AWT & Swing :-

1. AWT :- AWT provides heavy-weight components

Swing : Swing provides light-weight components

2. AWT : AWT is old framework

Swing : Swing is new framework

3. AWT : To use AWT we have to import java.awt package

Swing : To use Swing we have to import java.swing package

4. AWT : AWT provides less number of components

Swing : Swing provides more number of components

5. AWT : AWT is not portable

Swing : Swing is portable

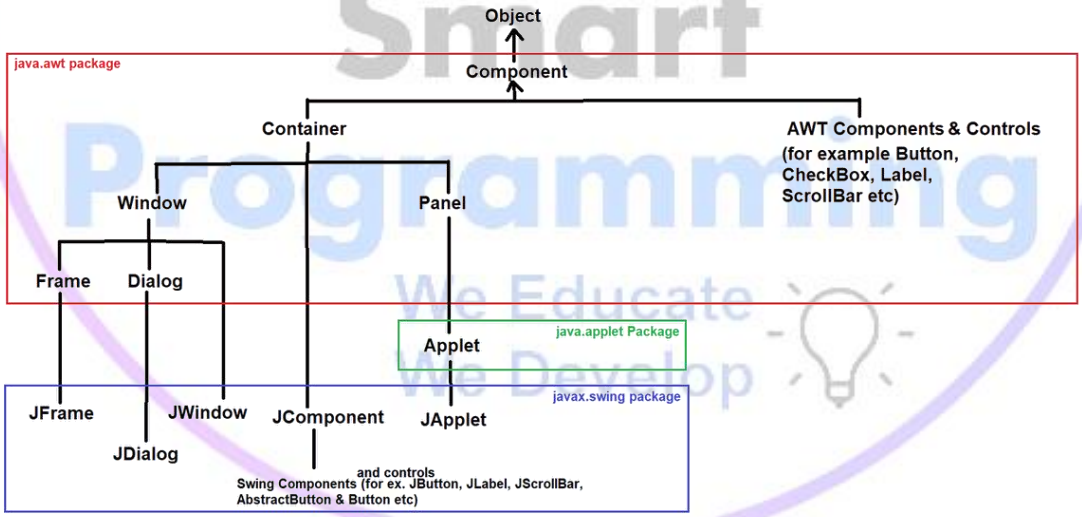
6. AWT : AWT requires more code for control functionalities

Swing : Swing requires less code for control functionalities

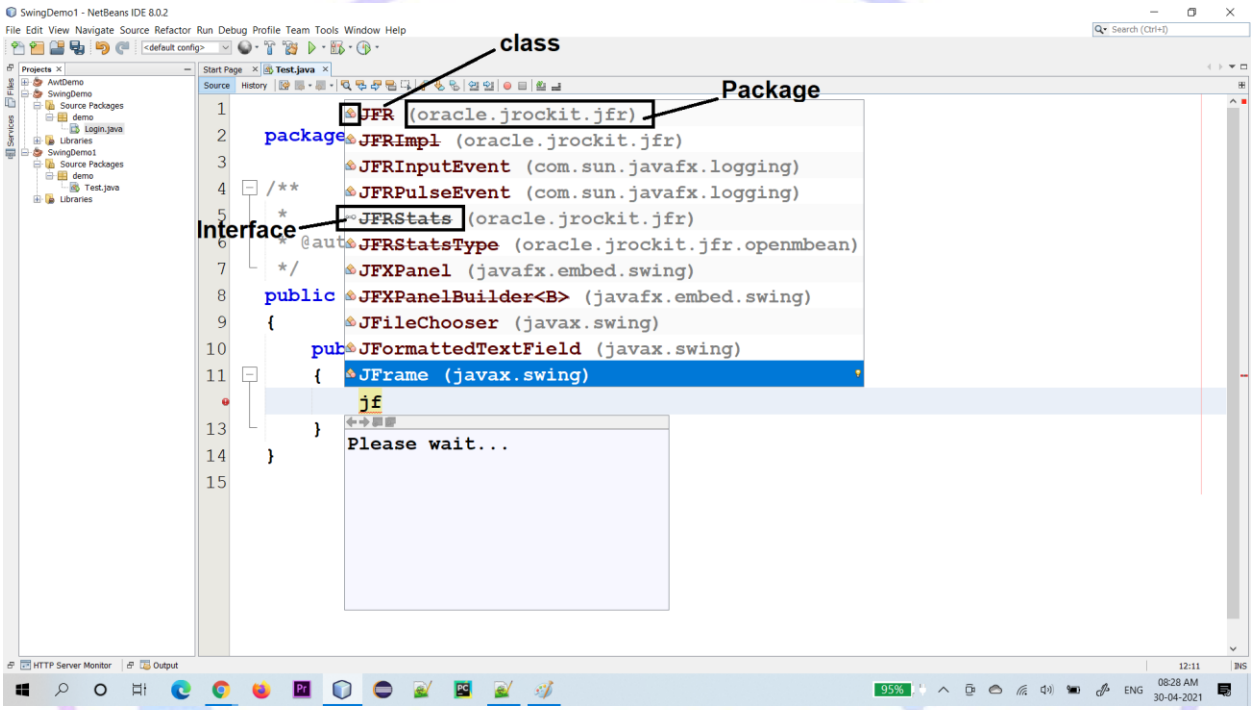
7. AWT : AWT does not support look and feel pluggable

Swing : Swing supports look and feel pluggable

=> Heirarchy of AWT & Swing :-



Netbeans Basic Thing You Should Know :-



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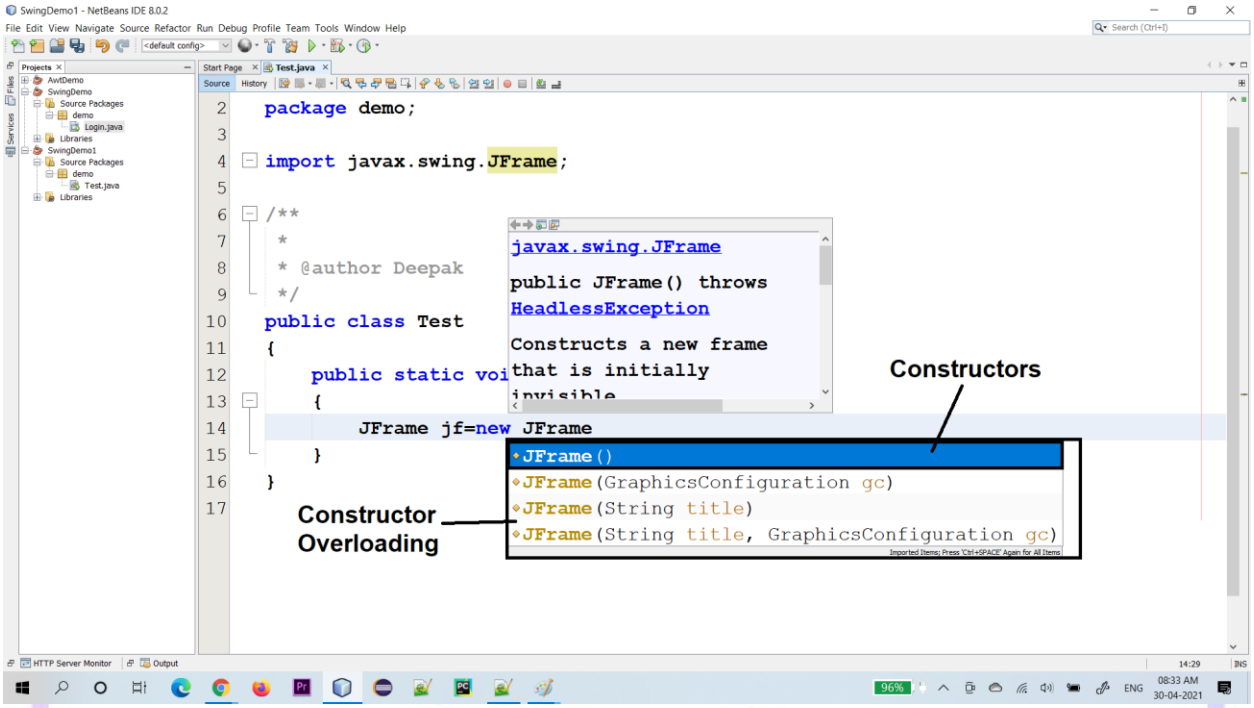
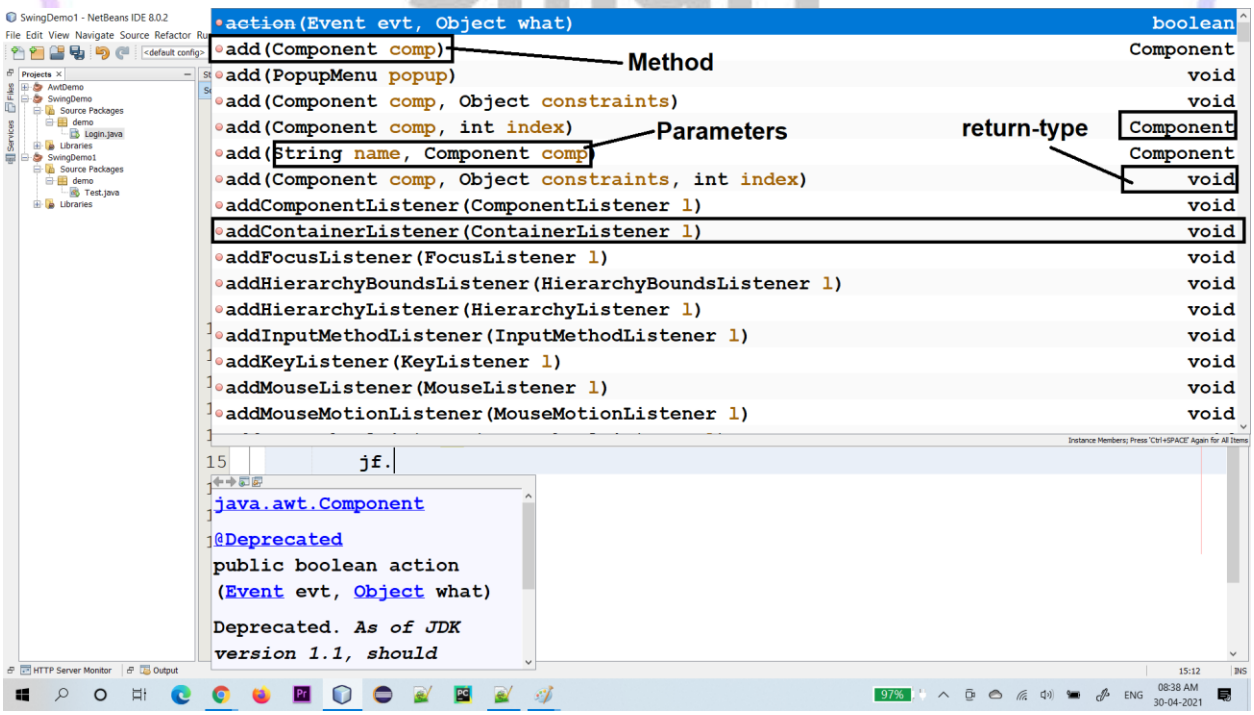
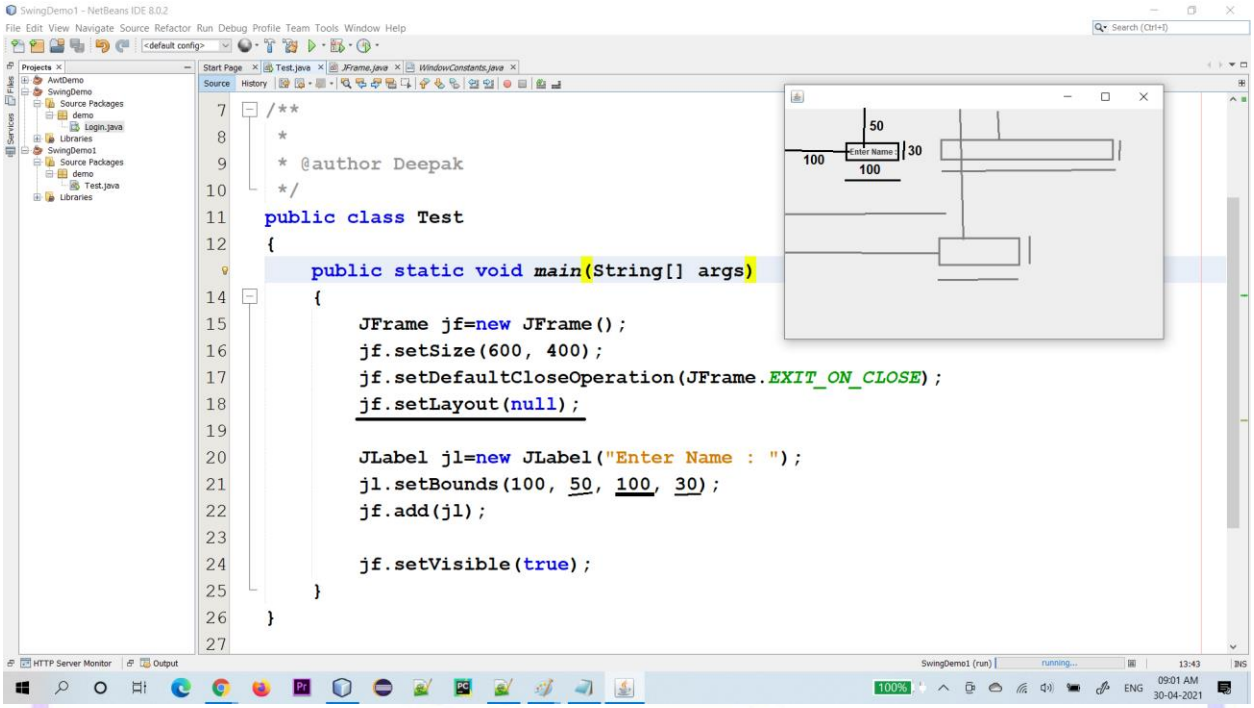

SwingDemo1 - NetBeans IDE 8.0.2
package demo;
import javax.swing.JFrame;
/**
* @author Deepak
*/
public class Test
{
public static voi
{
JFrame jf=new JFrame
}
}
javax.swing.JFrame
public JFrame() throws HeadlessException
Constructs a new frame that is initially invisible
Constructors
JFrame()
JFrame(GraphicsConfiguration gc)
JFrame(String title)
JFrame(String title, GraphicsConfiguration gc)
Constructor Overloading


action(Event evt, Object what) boolean
add(Component comp) Component
add(PopupMenu popup) void
add(Component comp, Object constraints) void
add(Component comp, int index) Component
add(String name, Component comp) Component
add(Component comp, Object constraints, int index) void
addComponentListener(ComponentListener l) void
addContainerListener(ContainerListener l) void
addFocusListener(FocusListener l) void
addHierarchyBoundsListener(HierarchyBoundsListener l) void
addHierarchyListener(HierarchyListener l) void
addInputMethodListener(InputMethodListener l) void
addKeyListener(KeyListener l) void
addMouseListener(MouseListener l) void
addMouseMotionListener(MouseMotionListener l) void
Method
Parameters
return-type
jf.
java.awt.Component
@Deprecated
public boolean action (Event evt, Object what)
Deprecated. As of JDK version 1.1, should




```
/**
 *
 * @author Deepak
 */
public class Test
{
    public static void main(String[] args)
    {
        JFrame jf=new JFrame();
        jf.setSize(600, 400);
        jf.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        jf.setLayout(null);

        JLabel jl=new JLabel("Enter Name : ");
        jl.setBounds(100, 50, 100, 30);
        jf.add(jl);

        jf.setVisible(true);
    }
}
```

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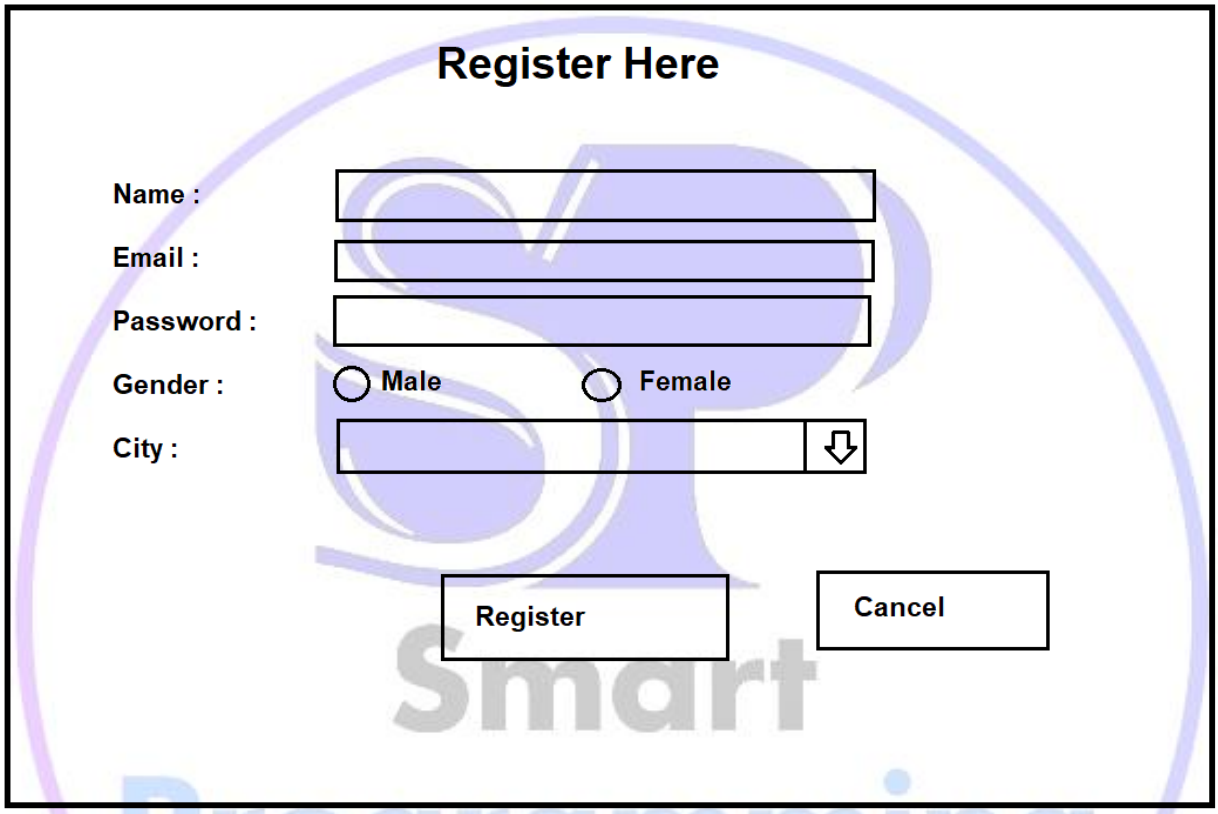
Task :-



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