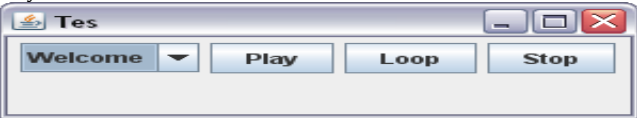


<p><b>Inheritance</b>          Pemrograman berorientasi obyek yang memungkinkan untuk mendapatkan class baru dari class yang ada.          Contoh:  <pre>import javax.swing.*; public class MyFrame extends JFrame(     public MyFrame(){} }</pre></p>	<p><b>Polymorphism</b>          Kemampuan untuk menciptakan sebuah variabel, fungsi, atau sebuah object yang memiliki lebih dari satu bentuk.          Ada 2 tipe:          - Pure Polymorphism: Overriding          - Trivial Polymorphism: Overloading</p> <pre>1 public class PolymorphismDemo { 2     /** Main method */ 3     public static void main(String[] args) { 4         // Display circle and rectangle properties 5         displayObject(new Circle4(1, "red", false)); 6         displayObject(new Rectangle1(1, 1, "black", true)); 7     } 8 9     /** Display geometric object properties */ 10    public static void displayObject(GeometricObject1 object) { 11        System.out.println("Created on " + object.getDateCreated() + 12            ". Color is " + object.getColor()); 13    } 14 }</pre>
<p><b>Encapsulation</b>          Sebuah mekanisme untuk membatasi akses ke beberapa komponen obyek.          Contoh:  <pre>public class Circle3 {     private double radius = 1;     private static int numberOfObjects = 0; ... }</pre></p>	<p>Contoh Overriding dan Overloading:</p> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px; width: 48%;"> <pre>public class Test {     public static void main(String[] args) {         A a = new A();         a.p(10);         a.p(10.0);     } }  class B {     public void p(double i) {         System.out.println(i * 2);     } }  class A extends B {     // This method overrides the method in B     public void p(double i) {         System.out.println(i);     } }</pre> </div> <div style="border: 1px solid black; padding: 5px; width: 48%;"> <pre>public class Test {     public static void main(String[] args) {         A a = new A();         a.p(10);         a.p(10.0);     } }  class B {     public void p(double i) {         System.out.println(i * 2);     } }  class A extends B {     // This method overloads the method in B     public void p(int i) {         System.out.println(i);     } }</pre> </div> </div>
<p><b>Database Operation</b></p> <p>insert into tableName values (value 1, value 2,...)</p> <p>Update tableName set column1=newValue1, column2 =newValue2 , ..., columnN = newValueN where [condition]</p> <p>delete from tableName where [condition]</p> <p><b>Interface AudioClip</b></p> <p>Class metaObject = this.getClass();          URL url = metaObject.getResources("binus.au");          AudioClip audioClip =          Applet.newAudioClip(url);</p>	<p><b>Multimedia</b>          Play Audio</p>  <pre>import java.applet.AudioClip; import java.awt.event.*; import java.awt.*; import javax.swing.*;  public class LoadAudioAndPlay extends JApplet implements ActionListener {     private AudioClip sound1, sound2, currentSound;     private JButton playButton, loopButton, stopButton;     private JComboBox soundJComboBox;      public void init(){         setLayout( new FlowLayout() );          String choices[] = { "Welcome", "Hi" };         soundJComboBox = new JComboBox( choices );          soundJComboBox.addItemListener(new ItemListener() {             public void itemStateChanged( ItemEvent e ) {                 currentSound.stop();                 currentSound = soundJComboBox.getSelectedIndex() == 0 ? sound1 : sound2;             }         });          add( soundJComboBox ); // add JComboBox to applet          // create Play JButton         playButton = new JButton( "Play" );         playButton.addActionListener( this );         add( playButton );          // create Loop JButton         loopButton = new JButton( "Loop" );         loopButton.addActionListener( this );         add( loopButton );          // create Stop JButton         stopButton = new JButton( "Stop" );         stopButton.addActionListener( this );         add( stopButton );          // load sounds and set currentSound         sound1 = getAudioClip( getDocumentBase(), "welcome.wav" );         sound2 = getAudioClip( getDocumentBase(), "hi.au" );         currentSound = sound1;     }      public void stop(){         currentSound.stop();     }      public void actionPerformed( ActionEvent actionEvent ){         if ( actionEvent.getSource() == playButton )             currentSound.play();         else if ( actionEvent.getSource() == loopButton )             currentSound.loop();         else if ( actionEvent.getSource() == stopButton )             currentSound.stop();     }      public static void main(String [] args){         JFrame frm = new JFrame("Tes");          LoadAudioAndPlay lap = new LoadAudioAndPlay();         frm.add(lap, BorderLayout.CENTER);          lap.init();          frm.setSize(300,100);         frm.setLocationRelativeTo(null);         frm.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);         frm.setVisible(true);     } }</pre>