Nama : Ade Reiki Karuna NIM : A12.2020.06455 Mata Kuliah : PBO

Tugas Praktik 6 (Inheritance)

### Latihan06a.java

```
C:\Program Files (x86)\Xinox Software\JCreatorV3LE\GE2001.exe

Programmer salary is : 40000.0

Bonus of Programmer is : 10000

Press any key to continue...
```

### Latihan06b.java

```
C:\Program Files (x86)\Xinox Software\JCreatorV3LE\GE2001.exe

Name : Suryania

Age : 22

Salary : 4000

Press any key to continue...
```

### Latihan06c (Calculator011.java)

### Source Code:

```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.JToggleButton.ToggleButtonModel;
public class Calculator011 extends JFrame implements ActionListener
    private JPanel
                       jpCalculator = new JPanel();
    private JTextField fLayar
                                      = new JTextField();
    private JLabel
                                       = new JLabel
("NIM:A12.2020.06455 | Nama : Ade Reiki Karuna");
    private JButton
                                       = new JButton ("+"),
                                       = new JButton ("-"),
                        btnKurang
                        btnKali
                                       = new JButton ("*"),
```

```
= new JButton ("/"),
                                    = new JButton ("0"),
                                    = new JButton ("1"),
                                    = new JButton ("2"),
                                    = new JButton ("3"),
                                    = new JButton ("4"),
                                    = new JButton ("5"),
                                    = new JButton ("6"),
                                    = new JButton ("7"),
                                    = new JButton ("8"),
                    btn8
                                   = new JButton ("9"),
                                    = new JButton ("."),
                                    = new JButton ("=");
private String isiLayar = "";
private String snilai1, snilai2, tombol;
private int pilih;
private double hasil;
private int hasil int;
Font font1 = new Font("SansSerif", Font.BOLD, 24);
public Calculator011() {
   setPreferredSize(new Dimension(500, 600));
   setTitle("Kalkulator");
   setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
   new BorderLayout();
   JDesktopPane jpCalculator = new JDesktopPane();
   add(jpCalculator, BorderLayout.CENTER);
   fLayar.setBounds (50, 90, 385, 50);
   fLayar.setFont(font1);
   labelmhs.setBounds(50, 480, 300, 50);
   btnC.setBounds (350, 160, 85, 50);
   btnKali.setBounds (350, 230, 85, 50);
   btnBagi.setBounds (350, 300, 85, 50);
   btnTambah.setBounds (350, 370, 85, 50);
   btnKurang.setBounds (350, 440, 85, 50);
```

```
btnSama.setBounds (250, 440, 85, 50);
btnKoma.setBounds (150, 440, 85, 50);
//baris ke-2
btn7.setBounds (50, 230, 85, 50);
btn8.setBounds (150, 230, 85, 50);
btn9.setBounds (250, 230, 85, 50);
//baris ke-3
btn4.setBounds (50, 300, 85, 50);
btn5.setBounds (150, 300, 85, 50);
btn6.setBounds (250, 300, 85, 50);
//baris ke-3
btn1.setBounds (50, 370, 85, 50);
btn2.setBounds (150, 370, 85, 50);
btn3.setBounds (250, 370, 85, 50);
//baris ke-4
btn0.setBounds (50, 440, 85, 50);
fLayar.setHorizontalAlignment(JTextField.RIGHT);
btnTambah.setEnabled(true);
btnKurang.setEnabled(true);
btnKali.setEnabled(true);
btnBagi.setEnabled(true);
btnKoma.setEnabled(true);
btn0.addActionListener(this);
btn1.addActionListener(this);
btn2.addActionListener(this);
btn3.addActionListener(this);
btn4.addActionListener(this);
btn5.addActionListener(this);
btn6.addActionListener(this);
```

```
btn7.addActionListener(this);
        btn8.addActionListener(this);
        btn9.addActionListener(this);
        btnC.addActionListener(this);
        btnSama.addActionListener(this);
        btnKoma.addActionListener(this);
        btnTambah.addActionListener(this);
        btnKurang.addActionListener(this);
        btnKali.addActionListener(this);
        btnBagi.addActionListener(this);
        jpCalculator.add (fLayar);
        jpCalculator.add (labelmhs);
        jpCalculator.add (btn0);
        jpCalculator.add (btn1);
        jpCalculator.add (btn2);
        jpCalculator.add (btn3);
        jpCalculator.add (btn4);
        jpCalculator.add (btn5);
        jpCalculator.add (btn6);
        jpCalculator.add (btn7);
        jpCalculator.add (btn8);
        jpCalculator.add (btn9);
        jpCalculator.add (btnKali);
        jpCalculator.add (btnBagi);
        jpCalculator.add (btnTambah);
        jpCalculator.add (btnKurang);
        jpCalculator.add (btnC);
        jpCalculator.add (btnSama);
        jpCalculator.add (btnKoma);
        /* Menambahkan objek panel (jpCalculator) ke container frame
        getContentPane().add(jpCalculator).setBackground(Color.getHS
BColor(10, 50, 200));
        /* Menampilkan frame ke layar monitor */
        pack();
        setVisible(true);
    public static void main(String[] args) {
```

```
new Calculator011().setVisible(true);
public void actionPerformed (ActionEvent ae) {
   Object obj = ae.getSource();
   if (obj == btnC)
        tombol = ""; snilai1 = ""; snilai2 = "";
       isiLayar = "";
       fLayar.setText(isiLayar);
   if (obj == btn0)
        isiLayar = isiLayar + "0";
        fLayar.setText(isiLayar);
   if (obj == btn1)
        isiLayar = isiLayar + "1";
       fLayar.setText(isiLayar);
   if (obj == btn2)
        isiLayar = isiLayar + "2";
       fLayar.setText(isiLayar);
        isiLayar = isiLayar + "3";
        fLayar.setText(isiLayar);
   if (obj == btn4)
        isiLayar = isiLayar + "4";
       fLayar.setText(isiLayar);
```

```
if (obj == btn5)
    isiLayar = isiLayar + "5";
    fLayar.setText(isiLayar);
    isiLayar = isiLayar + "6";
    fLayar.setText(isiLayar);
if (obj == btn7)
    isiLayar = isiLayar + "7";
   fLayar.setText(isiLayar);
if (obj == btn8)
    isiLayar = isiLayar + "8";
    fLayar.setText(isiLayar);
    isiLayar = isiLayar + "9";
    fLayar.setText(isiLayar);
    tombol = "tambah";
    snilai1 = fLayar.getText();
    isiLayar = "";
    fLayar.setText(isiLayar);
   pilih = 1;
if (obj == btnKurang)
    tombol = "kurang";
    snilai1 = fLayar.getText();
    isiLayar = "";
```

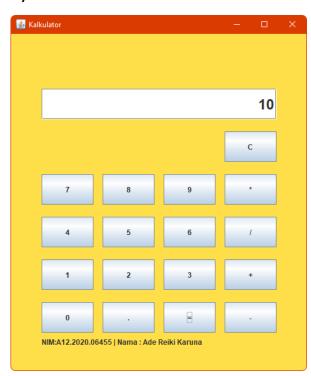
```
fLayar.setText(isiLayar);
            pilih = 2;
        if (obj == btnKali)
            tombol = "kali";
            snilai1 = fLayar.getText();
            isiLayar = "";
            fLayar.setText(isiLayar);
            pilih = 3;
        if (obj == btnBagi)
            tombol = "bagi";
            snilai1 = fLayar.getText();
            isiLayar = "";
            fLayar.setText(isiLayar);
            pilih = 4;
        if (obj == btnKoma)
            tombol = "koma";
            isiLayar = isiLayar + ".";
            fLayar.setText(isiLayar);
        if (obj == btnSama)
            snilai2 = fLayar.getText();
method rumus
            switch(pilih){
                case 1:
                methodTambah();
                break;
                case 2:
                methodKurang();
```

```
break;
                case 3:
                methodKali();
                methodBagi();
                break;
            if (tombol == "koma")
                String shasil = "" + hasil;
                fLayar.setText(shasil);
            else
                String shasil = "" + hasil_int;
                fLayar.setText(shasil);
            void methodTambah()
                if (tombol == "koma")
                    hasil = Double.parseDouble(snilai1) +
Double.parseDouble(snilai2);
                else
                    hasil = Integer.parseInt(snilai1) +
Integer.parseInt(snilai2);
                    hasil_int = (int)hasil;
```

```
void methodKurang()
                if (tombol == "koma")
                    hasil = Double.parseDouble(snilai1) -
Double.parseDouble(snilai2);
                    hasil = Integer.parseInt(snilai1) -
Integer.parseInt(snilai2);
                    hasil_int = (int)hasil;
            void methodKali()
                if (tombol == "koma")
                    hasil = Double.parseDouble(snilai1) *
Double.parseDouble(snilai2);
                else
                    hasil = Integer.parseInt(snilai1) *
Integer.parseInt(snilai2);
                    hasil_int = (int)hasil;
            void methodBagi()
                if (tombol == "koma")
                    hasil = Double.parseDouble(snilai1) /
Double.parseDouble(snilai2);
                else
                    hasil = Integer.parseInt(snilai1) /
Integer.parseInt(snilai2);
                    hasil_int = (int)hasil;
```

```
//fungsi untuk mengkosongkan objek layar tampilan
void kosong()
{
    fLayar.setText ("");
    fLayar.requestFocus ();
}
```

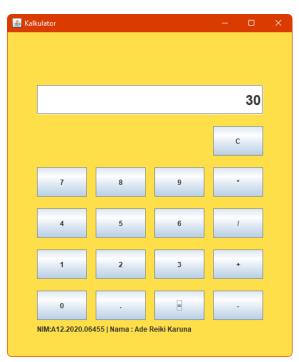
## Output Tambah (5+5):



# Output Kurang (10-7):



# Output Kali (3x10):



# Output Bagi (30/5):

