

Tugas PBO

Membuat Permainan TEBAK ANGKA

Nama Anggota:

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Link Video Youtube:

<https://youtu.be/JBIQVJsozWI>

Class Tebak.java

```
package TebakAngka;

import javax.swing.JOptionPane;

public class Tebak {
    static int skor = 20;
    static int angka = (int)(Math.random()*100+1);
    static String hint;
    public static int getSkor(){
        return skor;
    }
    public static String getHint(){
        return hint;
    }
    public static void reset(){
        skor = 20;
        angka = (int)(Math.random()*100+1);
    }
    public static void cek(int tebak){
        if(skor >= 2){
            if(tebak == angka){
                skor=scor*100;
                hint = "tebakan benar";
                JOptionPane.showMessageDialog(null, "Selamat
Anda Menang", "Congratulations",
JOptionPane.INFORMATION_MESSAGE);
            } else if(tebak < angka){
                skor = skor-2;
                hint = "terlalu kecil";
            } else {
                skor = skor-2;
                hint = "terlalu besar";
            }
        } else {
            hint = "";
        }
    }
}
```

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```
    }  
    if(skor == 0){  
        hint = "";  
        JOptionPane.showMessageDialog(null, "Yahhh Kalah",  
"ALERT!!!", JOptionPane.INFORMATION_MESSAGE);  
    }  
}  
}
```

Identitas.java

```
package TebakAngka;

import javax.swing.ImageIcon;

public class Identitas extends javax.swing.JFrame {

    ImageIcon Image1 = new ImageIcon("zaki.png");
    ImageIcon Image2 = new ImageIcon("alif.jpeg");
    public Identitas() {
        initComponents();
        this.setLocationRelativeTo(null);
        jLabel2.setText("");
        jLabel2.setIcon(Image1);
        jLabel4.setText("");
        jLabel4.setIcon(Image2);
    }

    /**
     * This method is called from within the constructor to
     initialize the form.
     * WARNING: Do NOT modify this code. The content of this
     method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated
    Code">
    private void initComponents() {

        jLabel2 = new javax.swing.JLabel();
        jLabel1 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLO
        SE);

        setTitle("Identitas");
        setBackground(new java.awt.Color(204, 153, 255));

        jLabel2.setText("Foto1");

        jLabel1.setFont(new java.awt.Font("SansSerif", 0, 14));
```

```
// NOI18N
    jLabel1.setText("Ahmad Hisbu Zakiyudin");

    jLabel3.setFont(new java.awt.Font("SansSerif", 0, 14));
// NOI18N
    jLabel3.setText("5002201148");

    jLabel4.setText("Foto2");

    jLabel5.setFont(new java.awt.Font("SansSerif", 0, 14));
// NOI18N
    jLabel5.setText("Alif Hibatullah Rapsodi");

    jLabel6.setFont(new java.awt.Font("SansSerif", 0, 14));
// NOI18N
    jLabel6.setText("5002201154");

    javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(27, 27, 27)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel2)
            .addComponent(jLabel1)
            .addComponent(jLabel3))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 50, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel4)
            .addComponent(jLabel5)
            .addComponent(jLabel6))
        .addGroup(layout.createSequentialGroup()
            .addGap(27, 27, 27))
    );
    layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```

        .addGroup(layout.createSequentialGroup()
            .addGap(28, 28, 28)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Ali
            gnment.BASELINE)
            .addComponent(jLabel1)
            .addComponent(jLabel5))

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELA
            TED)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Ali
            gnment.BASELINE)
            .addComponent(jLabel3)
            .addComponent(jLabel6))

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELA
            TED)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Ali
            gnment.BASELINE)
            .addComponent(jLabel2)
            .addComponent(jLabel4))
        .addGap(28, 28, 28))

    );

    pack();
} // </editor-fold>

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and
    feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available,
    stay with the default look and feel.
    * For details see
    http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/p
    laf.html
    */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
            javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {

```

```

javax.swing.UIManager.setLookAndFeel(info.getClassName());
        break;
    }
}
} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Identitas.class.getName()).lo
g(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Identitas.class.getName()).lo
g(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Identitas.class.getName()).lo
g(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex)
{

java.util.logging.Logger.getLogger(Identitas.class.getName()).lo
g(java.util.logging.Level.SEVERE, null, ex);
    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new Identitas().setVisible(true);
        }
    });
}

// Variables declaration - do not modify
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
// End of variables declaration
}

```

GUI.java

```
package TebakAngka;

import javax.swing.JOptionPane;

public class GUI extends javax.swing.JFrame {

    /**
     * Creates new form GUI
     */
    private int skor = 20;
    private int angka = 20;
    public GUI() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to
     initialize the form.
     * WARNING: Do NOT modify this code. The content of this
     method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated
    Code">
    private void initComponents() {

        jLabel3 = new javax.swing.JLabel();
        jPanel1 = new javax.swing.JPanel();
        txtTebakan = new javax.swing.JTextField();
        txtHint = new javax.swing.JTextField();
        txtSkor = new javax.swing.JTextField();
        btTebak = new javax.swing.JButton();
        btReset = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();

        jLabel3.setText("jLabel3");

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLO
```

```
SE);
    setTitle("Permainan Tebak Angka");

    jPanel1.setBackground(new java.awt.Color(204, 102,
255));
    jPanel1.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorde
r.RAISED));

    txtTebakan.setFont(new java.awt.Font("SansSerif", 0,
14)); // NOI18N
    txtTebakan.addActionListener(new
java.awt.event.ActionListener() {
        public void
actionPerformed(java.awt.event.ActionEvent evt) {
            txtTebakanActionPerformed(evt);
        }
    });

    txtHint.setEditable(false);
    txtHint.setFont(new java.awt.Font("SansSerif", 0, 14));
// NOI18N

    txtSkor.setEditable(false);
    txtSkor.setFont(new java.awt.Font("SansSerif", 0, 14));
// NOI18N
    txtSkor.setText("20");

    btTebak.setFont(new java.awt.Font("SansSerif", 0, 14));
// NOI18N
    btTebak.setText("Tebak");
    btTebak.addActionListener(new
java.awt.event.ActionListener() {
        public void
actionPerformed(java.awt.event.ActionEvent evt) {
            btTebakActionPerformed(evt);
        }
    });

    btReset.setFont(new java.awt.Font("SansSerif", 0, 14));
// NOI18N
    btReset.setText("Reset");
    btReset.addActionListener(new
java.awt.event.ActionListener() {
        public void
actionPerformed(java.awt.event.ActionEvent evt) {
            btResetActionPerformed(evt);
        }
    });
}
```



```

    }
    });

    jLabel1.setBackground(new java.awt.Color(255, 204,
204));
    jLabel1.setFont(new java.awt.Font("SansSerif", 1, 24));
// NOI18N
    jLabel1.setForeground(new java.awt.Color(255, 255,
255));
    jLabel1.setText("Permainan Tebak Angka");

    jLabel2.setFont(new java.awt.Font("SansSerif", 1, 14));
// NOI18N
    jLabel2.setForeground(new java.awt.Color(255, 255,
255));
    jLabel2.setText("Tebakan");

    jLabel4.setFont(new java.awt.Font("SansSerif", 1, 14));
// NOI18N
    jLabel4.setForeground(new java.awt.Color(255, 255,
255));
    jLabel4.setText("Hint");

    jLabel5.setFont(new java.awt.Font("SansSerif", 1, 14));
// NOI18N
    jLabel5.setForeground(new java.awt.Color(255, 255,
255));
    jLabel5.setText("Total Skor");

    jButton1.setFont(new java.awt.Font("SansSerif", 0, 14));
// NOI18N
    jButton1.setText("Identitas");
    jButton1.addActionListener(new
java.awt.event.ActionListener() {
        public void
actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });

    javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignm
ent.LEADING)

```

```
.addGroup(jPanel1Layout.createSequentialGroup()  
            .addGap(50, 50, 50)  
            .addComponent(jLabel1)  
  
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,  
Short.MAX_VALUE))  
  
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
jPanel1Layout.createSequentialGroup()  
  
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,  
Short.MAX_VALUE)  
  
    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLay  
out.Alignment.LEADING)  
            .addComponent(jLabel6)  
  
    .addGroup(jPanel1Layout.createSequentialGroup()  
  
    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLay  
out.Alignment.LEADING)  
  
    .addComponent(jLabel4)  
  
    .addComponent(jLabel5)  
  
    .addComponent(jLabel2))  
            .addGap(18, 18,  
18)  
  
    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLay  
out.Alignment.LEADING)  
  
    .addComponent(txtHint, javax.swing.GroupLayout.PREFERRED_SIZE,  
129, javax.swing.GroupLayout.PREFERRED_SIZE)  
  
    .addComponent(txtTebakan,  
javax.swing.GroupLayout.PREFERRED_SIZE, 129,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
  
    .addComponent(txtSkor, javax.swing.GroupLayout.PREFERRED_SIZE,  
129, javax.swing.GroupLayout.PREFERRED_SIZE))  
            .addGap(30, 30,  
30)  
  
    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLay
```

```

out.Alignment.LEADING)

.addComponent(jButton1)

.addComponent(btTebak)

.addComponent(btReset)))

                                .addGap(38, 38, 38))

        );
        jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignm
ent.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()
                                .addContainerGap(23,
Short.MAX_VALUE)
                                .addComponent(jLabel1)
                                .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLay
out.Alignment.BASELINE)

.addComponent(txtTebakan,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addComponent(btTebak)
                                .addComponent(jLabel2))
                                .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLay
out.Alignment.BASELINE)
                                .addComponent(txtHint,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addComponent(btReset)
                                .addComponent(jLabel4))
                                .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLay
out.Alignment.BASELINE)
                                .addComponent(txtSkor,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addComponent(jLabel5)
        .addComponent(jButton1))
        .addGap(18, 18, 18)
        .addComponent(jLabel6))
    );

    javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .add(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel3,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel4,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel5,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel6,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            )
            .addContainerGap())
    );

    pack();
} // </editor-fold>

private void
txtTebakanActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void
btTebakanActionPerformed(java.awt.event.ActionEvent evt) {
    int tebakkan;
    tebakkan = Integer.parseInt(txtTebakan.getText());
    if (Tebak.getSkor() > 0 && Tebak.getSkor() <= 20) {
        if (tebakkan >= 1 && tebakkan <= 100) {

```

```

        Tebak.cek(tebakan);
        txtHint.setText(Tebak.getHint());

txtSkor.setText(Integer.toString(Tebak.getSkor()));
    } else {
        JOptionPane.showMessageDialog(null, "Tebakan
        harus berada di antara 1-100", "Input di Luar Interval",
        JOptionPane.INFORMATION_MESSAGE);

    }
    } else if(Tebak.getSkor()>20){
        JOptionPane.showMessageDialog(null, "Silakan pencet
        reset", "Anda sudah Menang", JOptionPane.INFORMATION_MESSAGE);
    } else {
        JOptionPane.showMessageDialog(null, "Silakan pencet
        reset", "Anda sudah Kalah", JOptionPane.INFORMATION_MESSAGE);
    }
}

private void
btResetActionPerformed(java.awt.event.ActionEvent evt) {
    Tebak.reset();
    txtTebakan.setText("");
    txtHint.setText("");
    txtSkor.setText("20");
}

private void
jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    Identitas log = new Identitas();
    log.setVisible(true);
    log.pack();
    log.setLocationRelativeTo(null);
    log.setDefaultCloseOperation(Identitas.EXIT_ON_CLOSE);
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and
    feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available,
    stay with the default look and feel.
    * For details see

```

```

http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

    */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
            javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(GUI.class.getName()).log(java
.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(GUI.class.getName()).log(java
.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(GUI.class.getName()).log(java
.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
{

java.util.logging.Logger.getLogger(GUI.class.getName()).log(java
.util.logging.Level.SEVERE, null, ex);
    }
}
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new GUI().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JButton btReset;
private javax.swing.JButton btTebak;
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;

```

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```
private javax.swing.JLabel jLabel4;  
private javax.swing.JLabel jLabel5;  
private javax.swing.JLabel jLabel6;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JTextField txtHint;  
private javax.swing.JTextField txtSkor;  
private javax.swing.JTextField txtTebakan;  
// End of variables declaration  
}
```