

Tugas PBO

Membuat Permainan TEBAK ANGKA

Nama Anggota:

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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 = "";
        }
        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.Ali
gnment.LEADING)

                                .addComponent(jLabel12)
                                .addComponent(jLabel11)
                                .addComponent(jLabel13))

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)

                                .addComponent(jLabel14)
                                .addComponent(jLabel15)
                                .addComponent(jLabel16))
                        .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());
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Main.class).log(java.util.logging.
            Level.SEVERE, "The Nimbus Look and Feel is not supported.", ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Main.class).log(java.util.logging.
            Level.SEVERE, "Unable to instantiate UI class.", ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Main.class).log(java.util.logging.
            Level.SEVERE, "Unable to access UI class.", ex);
    }
}

```

```

        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))
        .addGap(18, 18, 18)
        .addComponent(jLabel16))
    );

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

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addContainerGap())
        );
    layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap())
        );

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

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

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

```

```

        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 */
    //

```

```

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(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;
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  
}
```