

LAPORAN PERKEMBANGAN TUGAS BESAR
PBO : APLIKASI PENGUBAH SATUAN



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A. Source Code Tugas

1. Splash Screen

```
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    Look and feel setting code (optional)

    /* Create and display the form */
    SplashScreen sp = new SplashScreen();
    sp.setVisible(true);
    try {
        for(int i=0; i<=100; i++){
            Thread.sleep(30);
            sp.time.setText(i+"%");
            if(i==10){
                sp.load.setText("Memulai Modul");
            }
            if(i==90){
                sp.load.setText("Menjalankan Aplikasi");
            }
            if(i==100){
                new Beranda().setVisible(true);
                sp.setVisible(false);
            }
            sp.Bar.setValue(i);
        }
    } catch (Exception e) {
        System.out.println("Semangat mabro");
    }
}
```

2. Tombol

```
private void SetColour(JPanel pane) {
    pane.setBackground(new Color(0, 220, 190));
}

private void ResetColour(JPanel[] pane, JPanel[] Indikator) {
    for (int i = 0; i < pane.length; i++) {
        pane[i].setBackground(new Color(0, 153, 153));
    }
    for (int i = 0; i < Indikator.length; i++) {
        Indikator[i].setOpaque(false);
    }
}
```

```
private void Tombol1MousePressed(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    SetColour(Tombol1);
    anaktombol1.setOpaque(true);
    ResetColour(new JPanel[]{Tombol2, Tombol3, Tombol4, Tombol5}, new JPanel[]{anaktombol2, anaktombol3, anaktombol4, anaktombol5});
    Menu.setSelectedIndex(0);
}
```

3. Satuan Panjang

```
private void DamKeyReleased(java.awt.event.KeyEvent evt) {  
    float i = Float.valueOf(Dam.getText());  
    float nilaihm = i / 10;  
    float nilaikm = i / 100;  
    float nilaim = i * 10;  
    float nilaidm = i * 100;  
    float nilaicm = i * 1000;  
    float nilaimm = i * 10000;  
    Hm.setText(String.valueOf(nilaihm));  
    Km.setText(String.valueOf(nilaikm));  
    M.setText(String.valueOf(nilaim));  
    Dm.setText(String.valueOf(nilaidm));  
    Cm.setText(String.valueOf(nilaicm));  
    MM.setText(String.valueOf(nilaimm));  
}
```

4. Satuan Luas

```
private void HAKeyReleased(java.awt.event.KeyEvent evt) {  
    float i = Float.parseFloat(HA.getText());  
    float me = i * 10000;  
    float ran = i * 25;  
    meter.setText(String.valueOf(me));  
    rante.setText(String.valueOf(ran));  
}  
  
private void ranteKeyReleased(java.awt.event.KeyEvent evt) {  
    float i = Float.parseFloat(rante.getText());  
    float me = i * 400;  
    float ran = i / 25;  
    meter.setText(String.valueOf(me));  
    HA.setText(String.valueOf(ran));  
}
```

5. Satuan Volume

```
private void literKeyReleased(java.awt.event.KeyEvent evt) {  
    float i = Float.parseFloat(liter.getText());  
    float Ga = (float) (i / 3.78541);  
    float l = i * 1000;  
    float mkub = i / 1000;  
    galon.setText(String.valueOf(Ga));  
    mililiter.setText(String.valueOf(l));  
    meterkubik.setText(String.valueOf(mkub));  
}  
  
private void galonKeyReleased(java.awt.event.KeyEvent evt) {  
    float i = Float.parseFloat(galon.getText());  
    float Ga = (float) (i * 3.78541);  
    float l = (float) (i * 3785.41);  
    float mkub = (float) (i / 264.172);  
    liter.setText(String.valueOf(Ga));  
    mililiter.setText(String.valueOf(l));  
    meterkubik.setText(String.valueOf(mkub));  
}
```

6. Satuan Waktu

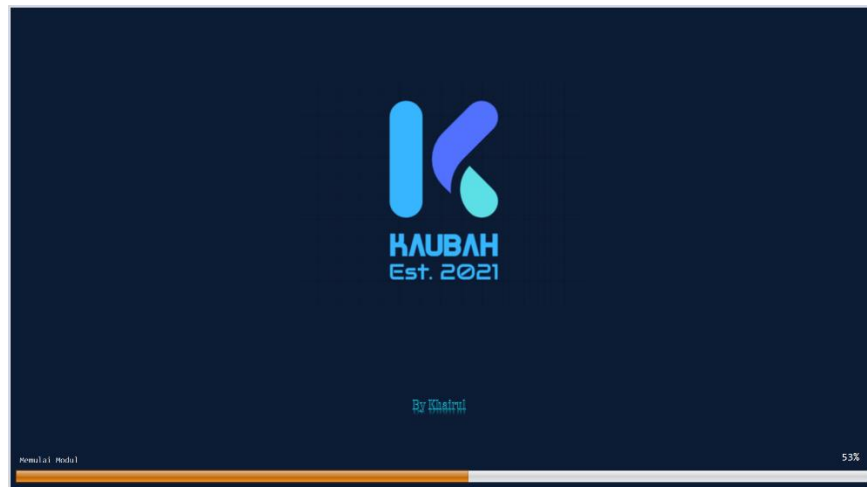
```
private void tahunKeyReleased(java.awt.event.KeyEvent evt) {  
    float i = Float.parseFloat(tahun.getText());  
    float bln = i * 12;  
    float migg = i * 12 * 4;  
    float hr = i * 365;  
    float jm = i * 365 * 24;  
    float mnt = i * 365 * 24 * 60;  
    float dtk = i * 365 * 24 * 60 * 60;  
    bulan.setText(String.valueOf(bln));  
    minggu.setText(String.valueOf(migg));  
    hari.setText(String.valueOf(hr));  
    jam.setText(String.valueOf(jm));  
    menit.setText(String.valueOf(mnt));  
    detik.setText(String.valueOf(dtk));  
}  
  
private void bulanKeyReleased(java.awt.event.KeyEvent evt) {  
    float i = Float.parseFloat(bulan.getText());  
    float thn = i / 12;  
    float migg = i * 4;  
    float hr = i * 30;  
    float jm = i * 30 * 24;  
    float mnt = i * 30 * 24 * 60;  
    float dtk = i * 30 * 24 * 60 * 60;  
    tahun.setText(String.valueOf(thn));  
    minggu.setText(String.valueOf(migg));  
    hari.setText(String.valueOf(hr));  
    jam.setText(String.valueOf(jm));  
    menit.setText(String.valueOf(mnt));  
    detik.setText(String.valueOf(dtk));  
}
```

7. Satuan Suhu

```
private void kelvinKeyReleased(java.awt.event.KeyEvent evt) {  
    float k = Float.parseFloat(kelvin.getText());  
    float c = k - 273;  
    float f = (k - 273) * (9 / 5) + 32;  
    float r = (4 / 5) * (k - 273);  
    Celcius.setText(String.valueOf(c));  
    fahrenheit.setText(String.valueOf(f));  
    reamur.setText(String.valueOf(r));  
}  
  
private void CelciusKeyReleased(java.awt.event.KeyEvent evt) {  
    float c = Float.parseFloat(Celcius.getText());  
    float k = c + 273;  
    float f = (9 / 5) * (c + 32);  
    float r = (4 / 5) * c;  
    kelvin.setText(String.valueOf(k));  
    fahrenheit.setText(String.valueOf(f));  
    reamur.setText(String.valueOf(r));  
}
```

B. Tampilan Aplikasi

1. *Splash Screen*



2. Aplikasi



Konversi

Satuan Panjang

Satuan Luas

Satuan Volume

Satuan Waktu

Satuan Suhu

Ha

m²

Rante

Konversi

Satuan Panjang

Satuan Luas

Satuan Volume

Satuan Waktu

Satuan Suhu

Galon

Liter

mL

m³

Konversi

Satuan Panjang

Satuan Luas

Satuan Volume

Satuan Waktu

Satuan Suhu

Tahun

Bulan

Minggu

Hari

Jam

Menit

Detik

C. Kendala Pengerjaan

1. Banyak fungsi dari *Software Netbeans* yang belum dimengerti
2. Banyak metode penyelesaian masalah menggunakan Bahasa java yang belum dimengerti