# LAMPIRAN

**Lampiran 1** Data Jumlah Pelanggan di PLN Rayon Batang

| No. | Nama Feeder | Jumlah Pelanggan |
|---|---|---|
| 1 | BTG01 | 19130 |
| 2 | BTG02 | 22335 |
| 3 | BTG03 | 5903 |
| 4 | BTG04 | 1 |
| 5 | BTG06 | 23720 |
| 6 | BTG07 | 9432 |
| 7 | BTG08 | 2 |
| 8 | BTG09 | 24554 |
| 9 | BTG10 | 18785 |
| 10 | BTG11 | 1 |
| 11 | BTG12 | 1 |
| 12 | PKL13 | 23985 |
| **Total Pelanggan** | | **147849** |

**Lampiran 2** Data Gangguan PLN Rayon Batang

| No. | Bulan | Rayon | Feeder | Jam Padam | Jam Nyala | Lama Padam (Menit) |
|---|---|---|---|---|---|---|
| 1 | Januari | Batang | BTG09 | 00:26 | 00.29 | 3 |
| 2 | Februari | Batang | BTG07 | 19:58 | 22.08 | 130 |
| 3 | Februari | Batang | BTG01 | 13:58 | 15.07 | 69 |
| 4 | Februari | Batang | BTG03 | 13:58 | 15.05 | 67 |
| 5 | Februari | Batang | BTG01 | 17:33 | 18.18 | 45 |
| 6 | Maret | Batang | BTG13 | 02:17 | 02.43 | 26 |
| 7 | Maret | Batang | BTG07 | 10:47 | 12.36 | 109 |
| 8 | Maret | Batang | BTG07 | 14:02 | 15.49 | 107 |
| 9 | April | Batang | BTG09 | 10:38 | 10.58 | 20 |
| 10 | April | Batang | BTG04 | 12:14 | 12.55 | 41 |
| 11 | April | Batang | BTG02 | 15:46 | 20.37 | 291 |
| 12 | April | Batang | BTG06 | 08:45 | 09.46 | 61 |
| 13 | April | Batang | BTG07 | 12:04 | 12.47 | 43 |
| 14 | April | Batang | BTG01 | 18:37 | 20.21 | 104 |
| 15 | April | Batang | BTG03 | 18:37 | 20.57 | 140 |
| 16 | Mei | Batang | BTG02 | 14:43 | 16.24 | 101 |
| 17 | Juni | Batang | BTG01 | 23:30 | 02.46 | 196 |
| 18 | Juni | Batang | BTG01 | 22:14 | 03.06 | 292 |
| 19 | Agustus | Batang | BTG12 | 09:34 | 09.36 | 2 |
| 20 | Agustus | Batang | BTG01 | 03:28 | 03.38 | 10 |
| 21 | September | Batang | BTG08 | 10:06 | 10.48 | 42 |
| 22 | September | Batang | BTG03 | 22:27 | 22.39 | 132 |
| 23 | Oktober | Batang | BTG12 | 04:21 | 09.49 | 328 |
| 24 | Desember | Batang | BTG03 | 13:03 | 13.38 | 35 |
| 25 | Desember | Batang | BTG07 | 01:58 | 03.10 | 72 |
| 27 | Desember | Batang | BTG01 | 10:22 | 11.14 | 52 |
| 28 | Desember | Batang | BTG03 | 10:23 | 12.12 | 109 |

**Lampiran 3** Kode Sumber

**Opening.java**

```
private void STARTActionPerformed (java.awt.event.
ActionEvent evt) {
Penghitung penghitung=new Penghitung();
penghitung.setVisible(true);
this.setVisible(false);// TODO add your handling code
here:
}
```

**Penghitung.java**

```
public class Penghitung extends javax.swing.JFrame {
 String t="";
 String a1="", b1="", c1="";
 String a2="", b2="", c2="";
 String a3="", b3="", c3="";
 String a4="", b4="", c4="";
 String a5="", b5="", c5="";
 String a6="", b6="", c6="";
 String a7="", b7="", c7="";
 String a8="", b8="", c8="";
 String a9="", b9="", c9="";
 String a10="", b10="", c10="";
 String a11="", b11="", c11="";
 String a12="", b12="", c12="";
```

```
// TODO add your handling code here:
}
private void jButton1ActionPerformed (java.awt.event.
ActionEvent evt) {
t=tt1.getText();
float vt1=Integer.parseInt(tt1.getText());


a1=ta1.getText();
b1=tb1.getText();
c1=tc1.getText();
float va1=Float.parseFloat(ta1.getText());
float vb1=Float.parseFloat(tb1.getText());
float vc1=Float.parseFloat(tc1.getText());
float saifi1=(va1*vc1)/vt1;
float saidi1=(vb1*vc1)/vt1;
float caidi1=((vb1*vc1)/vt1)/((va1*vc1)/vt1);
float asai1=((8760-saidi1)/8760)*100;
float asui1=(1-asai1);
tx1.setText(" "+ saifi1);
ty1.setText(" "+ saidi1);
tz1.setText(" "+ caidi1);
asa1.setText(" "+ asai1);
asu1.setText(" "+ asui1);

if (saifi1<3.2) {
ah1.setText("OK");
}
```

```
else {
ah1.setText("TIDAK OK");
}
if (saidi1<21.09) {
ah13.setText("OK");
}
else {
ah13.setText("TIDAK OK");
}
if (saifi1<1.45) {
isf1.setText("OK");
}
else {
isf1.setText("TIDAK OK");
}
if (saidi1<2.3) {
isd1.setText("OK");
}
else {
isd1.setText("TIDAK OK");
}
if (caidi1<1.47) {
cd1.setText("OK");
}
else {
cd1.setText("TIDAK OK");
}

A2=ta2.getText();
```

```
B2=tb2.getText();
C2=tc2.getText();
float va2=Float.parseFloat(ta2.getText());
float vb2=Float.parseFloat(tb2.getText());
float vc2=Float.parseFloat(tc2.getText());
float saifi2=(va2*vc2)/vt2;
float saidi2=(vb2*vc2)/vt2;
float caidi2=((vb2*vc2)/vt2)/((va2*vc2)/vt2);
float asai2=((8760-saidi2)/8760)*100;
float asui2=(1-asai2);
tx2.setText(" "+ saifi2);
ty2.setText(" "+ saidi2);
tz2.setText(" "+ caidi2);
asa2.setText(" "+ asai2);
asu2.setText(" "+ asui2);

if (saifi2<3.2) {
ah2.setText("OK");
}
else {
ah2.setText("TIDAK OK");
}
if (saidi2<21.09) {
ah14.setText("OK");
}
else {
ah14.setText("TIDAK OK");
```

```
}
if (saifi2<1.45) {
isf2.setText("OK");
}
else {
isf2.setText("TIDAK OK");
}
if (saidi2<2.3) {
isd2.setText("OK");
}
else {
isd2.setText("TIDAK OK");
}
if (caidi2<1.47) {
cd2.setText("OK");
}
else {
cd2.setText("TIDAK OK");
}

a3=ta3.getText();
b3=tb3.getText();
c3=tc3.getText();
float va3=Float.parseFloat(ta3.getText());
float vb3=Float.parseFloat(tb3.getText());
float vc3=Float.parseFloat(tc3.getText());
float saifi3=(va3*vc3)/vt3;
```

```
float saidi3=(vb3*vc3)/vt3;
float caidi3=((vb3*vc3)/vt3)/((va3*vc3)/vt3);
float asai3=((8760-saidi3)/8760)*100;
float asui3=(1-asai3);
tx3.setText(" "+ saifi3);
ty3.setText(" "+ saidi3);
tz3.setText(" "+ caidi3);
asa3.setText(" "+ asai3);
asu3.setText(" "+ asui3);

if (saifi3<3.2) {
ah3.setText("OK");
}
else {
ah3.setText("TIDAK OK");
}
if (saidi3<21.09) {
ah15.setText("OK");
}
else {
ah15.setText("TIDAK OK");
}
if (saifi3<1.45) {
isf3.setText("OK");
}
else {
isf3.setText("TIDAK OK");
}
```

```
if (saidi3<2.3) {
isd3.setText("OK");
}
else {
isd3.setText("TIDAK OK");
}
if (caidi3<1.47) {
cd3.setText("OK");
}
else {
cd3.setText("TIDAK OK");
}

a4=ta4.getText();
b4=tb4.getText();
c4=tc4.getText();
float va4=Float.parseFloat(ta4.getText());
float vb4=Float.parseFloat(tb4.getText());
float vc4=Float.parseFloat(tc4.getText());
float saifi4=(va4*vc4)/vt4;
float saidi4=(vb4*vc4)/vt4;
float caidi4=((vb4*vc4)/vt4)/((va4*vc4)/vt4);
float asai4=((8760-saidi4)/8760)*100;
float asui4=(1-asai4);
tx4.setText(" "+ saifi4);
ty4.setText(" "+ saidi4);
```

```
tz4.setText(" "+ caidi4);
asa4.setText(" "+ asai4);
asu4.setText(" "+ asui4);

if (saifi4<3.2) {
ah4.setText("OK");
}
else {
ah4.setText("TIDAK OK");
}
if (saidi4<21.09) {
ah16.setText("OK");
}
else {
ah16.setText("TIDAK OK");
}
if (saifi4<1.45) {
isf4.setText("OK");
}
else {
isf4.setText("TIDAK OK");
}
if (saidi4<2.3) {
isd4.setText("OK");
}
else {
isd4.setText("TIDAK OK");
}
if (caidi4<1.47) {
```

```
cd4.setText("OK");
}
else {
cd4.setText("TIDAK OK");
}

a5=ta5.getText();
b5=tb5.getText();
c5=tc5.getText();
float va5=Float.parseFloat(ta5.getText());
float vb5=Float.parseFloat(tb5.getText());
float vc5=Float.parseFloat(tc5.getText());
float saifi5=(va5*vc5)/vt5;
float saidi5=(vb5*vc5)/vt5;
float caidi5=((vb5*vc5)/vt5)/((va5*vc5)/vt5);
float asai5=((8760-saidi5)/8760)*100;
float asui5=(1-asai5);
tx5.setText(" "+ saifi5);
ty5.setText(" "+ saidi5);
tz5.setText(" "+ caidi5);
asa5.setText(" "+ asai5);
asu5.setText(" "+ asui1);

if (saifi5<3.2) {
ah5.setText("OK");
}
```

```
else {
ah5.setText("TIDAK OK");
}
if (saidi5<21.09) {
ah17.setText("OK");
}
else {
ah17.setText("TIDAK OK");
}
if (saifi5<1.45) {
isf5.setText("OK");
}
else {
isf5.setText("TIDAK OK");
}
if (saidi5<2.3) {
isd5.setText("OK");
}
else {
isd5.setText("TIDAK OK");
}
if (caidi5<1.47) {
cd5.setText("OK");
}
else {
cd5.setText("TIDAK OK");
}

A6=ta6.getText();
```

```
B6=tb6.getText();
C6=tc6.getText();
float va6=Float.parseFloat(ta6.getText());
float vb6=Float.parseFloat(tb6.getText());
float vc6=Float.parseFloat(tc6.getText());
float saifi6=(va6*vc6)/vt6;
float saidi6=(vb6*vc6)/vt6;
float caidi6=((vb6*vc6)/vt6)/((va6*vc6)/vt6);
float asai6=((8760-saidi6)/8760)*100;
float asui6=(1-asai6);
tx6.setText(" "+ saifi6);
ty6.setText(" "+ saidi6);
tz6.setText(" "+ caidi6);
asa6.setText(" "+ asai6);
asu6.setText(" "+ asui6);

if (saifi6<3.2) {
ah6.setText("OK");
}
else {
ah6.setText("TIDAK OK");
}
if (saidi6<21.09) {
ah18.setText("OK");
}
else {
ah18.setText("TIDAK OK");
```

```
}
if (saifi6<1.45) {
isf6.setText("OK");
}
else {
isf6.setText("TIDAK OK");
}
if (saidi6<2.3) {
isd6.setText("OK");
}
else {
isd6.setText("TIDAK OK");
}
if (caidi6<1.47) {
cd6.setText("OK");
}
else {
cd6.setText("TIDAK OK");
}

a7=ta7.getText();
b7=tb7.getText();
c7=tc7.getText();
float va7=Float.parseFloat(ta7.getText());
float vb7=Float.parseFloat(tb7.getText());
float vc7=Float.parseFloat(tc7.getText());
float saifi7=(va7*vc7)/vt7;
```

```
float saidi7=(vb7*vc7)/vt7;
float caidi7=((vb7*vc7)/vt7)/((va7*vc7)/vt7);
float asai7=((8760-saidi7)/8760)*100;
float asui7=(1-asai7);
tx7.setText(" "+ saifi7);
ty7.setText(" "+ saidi7);
tz7.setText(" "+ caidi7);
asa7.setText(" "+ asai7);
asu7.setText(" "+ asui7);

if (saifi7<3.2) {
ah7.setText("OK");
}
else {
ah7.setText("TIDAK OK");
}
if (saidi7<21.09) {
ah19.setText("OK");
}
else {
ah19.setText("TIDAK OK");
}
if (saifi7<1.45) {
isf7.setText("OK");
}
else {
isf7.setText("TIDAK OK");
}
```

```
if (saidi7<2.3) {
isd7.setText("OK");
}
else {
isd7.setText("TIDAK OK");
}
if (caidi7<1.47) {
cd7.setText("OK");
}
else {
cd7.setText("TIDAK OK");
}

a8=ta8.getText();
b8=tb8.getText();
c8=tc8.getText();
float va8=Float.parseFloat(ta8.getText());
float vb8=Float.parseFloat(tb8.getText());
float vc8=Float.parseFloat(tc8.getText());
float saifi8=(va8*vc8)/vt8;
float saidi8=(vb8*vc8)/vt8;
float caidi8=((vb8*vc8)/vt8)/((va8*vc8)/vt8);
float asai8=((8760-saidi8)/8760)*100;
float asui8=(1-asai8);
tx8.setText(" "+ saifi8);
ty8.setText(" "+ saidi8);
```

```
tz8.setText(" "+ caidi8);
asa8.setText(" "+ asai8);
asu8.setText(" "+ asui8);

if (saifi8<3.2) {
ah8.setText("OK");
}
else {
ah8.setText("TIDAK OK");
}
if (saidi8<21.09) {
ah20.setText("OK");
}
else {
ah20.setText("TIDAK OK");
}
if (saifi8<1.45) {
isf8.setText("OK");
}
else {
isf8.setText("TIDAK OK");
}
if (saidi8<2.3) {
isd8.setText("OK");
}
else {
isd8.setText("TIDAK OK");
}
if (caidi8<1.47) {
```

```
cd8.setText("OK");
}
else {
cd8.setText("TIDAK OK");
}

a9=ta9.getText();
b9=tb9.getText();
c9=tc9.getText();
float va9=Float.parseFloat(ta9.getText());
float vb9=Float.parseFloat(tb9.getText());
float vc9=Float.parseFloat(tc9.getText());
float saifi9=(va9*vc9)/vt9;
float saidi9=(vb9*vc9)/vt9;
float caidi9=((vb9*vc9)/vt9)/((va9*vc9)/vt9);
float asai9=((8760-saidi9)/8760)*100;
float asui9=(1-asai9);
tx9.setText(" "+ saifi9);
ty9.setText(" "+ saidi9);
tz9.setText(" "+ caidi9);
asa9.setText(" "+ asai9);
asu9.setText(" "+ asui9);

if (saifi9<3.2) {
ah9.setText("OK");
}
```

```
else {
ah9.setText("TIDAK OK");
}
if (saidi9<21.09) {
ah21.setText("OK");
}
else {
ah21.setText("TIDAK OK");
}
if (saifi9<1.45) {
isf9.setText("OK");
}
else {
isf9.setText("TIDAK OK");
}
if (saidi9<2.3) {
isd9.setText("OK");
}
else {
isd9.setText("TIDAK OK");
}
if (caidi9<1.47) {
cd9.setText("OK");
}
else {
cd9.setText("TIDAK OK");
}

A10=ta10.getText();
```

```
b10=tb10.getText();
c10=tc10.getText();
float va10=Float.parseFloat(ta10.getText());
float vb10=Float.parseFloat(tb10.getText());
float vc10=Float.parseFloat(tc10.getText());
float saifi10=(va10*vc10)/vt10;
float saidi10=(vb10*vc10)/vt10;
float caidi10=((vb10*vc10)/vt10)/((va10*vc10)/vt10);
float asai10=((8760-saidi10)/8760)*100;
float asui10=(1-asai10);
tx10.setText(" "+ saifi10);
ty10.setText(" "+ saidi10);
tz10.setText(" "+ caidi10);
asa10.setText(" "+ asai10);
asu10.setText(" "+ asui10);

if (saifi10<3.2) {
ah10.setText("OK");
}
else {
ah10.setText("TIDAK OK");
}
if (saidi10<21.09) {
ah22.setText("OK");
}
else {
ah22.setText("TIDAK OK");
```

```
}
if (saifi10<1.45) {
isf10.setText("OK");
}
else {
isf10.setText("TIDAK OK");
}
if (saidi10<2.3) {
isd10.setText("OK");
}
else {
isd10.setText("TIDAK OK");
}
if (caidi10<1.47) {
cd10.setText("OK");
}
else {
cd10.setText("TIDAK OK");
}

a11=ta11.getText();
b11=tb11.getText();
c11=tc11.getText();
float va11=Float.parseFloat(ta11.getText());
float vb11=Float.parseFloat(tb11.getText());
float vc11=Float.parseFloat(tc11.getText());
float saifi11=(va11*vc11)/vt11;
```

```
float saidi11=(vb11*vc11)/vt11;
float caidi11=((vb11*vc11)/vt11)/((va11*vc11)/vt11);
float asai11=((8760-saidi11)/8760)*100;
float asui11=(1-asai11);
tx11.setText(" "+ saifi11);
ty11.setText(" "+ saidi11);
tz11.setText(" "+ caidi11);
asa11.setText(" "+ asai11);
asu11.setText(" "+ asui11);

if (saifi11<3.2) {
ah11.setText("OK");
}
else {
ah11.setText("TIDAK OK");
}
if (saidi11<21.09) {
ah23.setText("OK");
}
else {
ah23.setText("TIDAK OK");
}
if (saifi11<1.45) {
isf11.setText("OK");
}
else {
isf11.setText("TIDAK OK");
}
```

```
if (saidi11<2.3) {
isd11.setText("OK");
}
else {
isd11.setText("TIDAK OK");
}
if (caidi11<1.47) {
cd11.setText("OK");
}
else {
cd11.setText("TIDAK OK");
}

a12=ta12.getText();
b12=tb12.getText();
c12=tc12.getText();
float va12=Float.parseFloat(ta12.getText());
float vb12=Float.parseFloat(tb12.getText());
float vc12=Float.parseFloat(tc12.getText());
float saifi12=(va12*vc12)/vt12;
float saidi12=(vb12*vc12)/vt12;
float caidi12=((vb12*vc12)/vt12)/((va12*vc12)/vt12);
float asai12=((8760-saidi12)/8760)*100;
float asui12=(1-asai12);
tx12.setText(" "+ saifi12);
ty12.setText(" "+ saidi12);
```

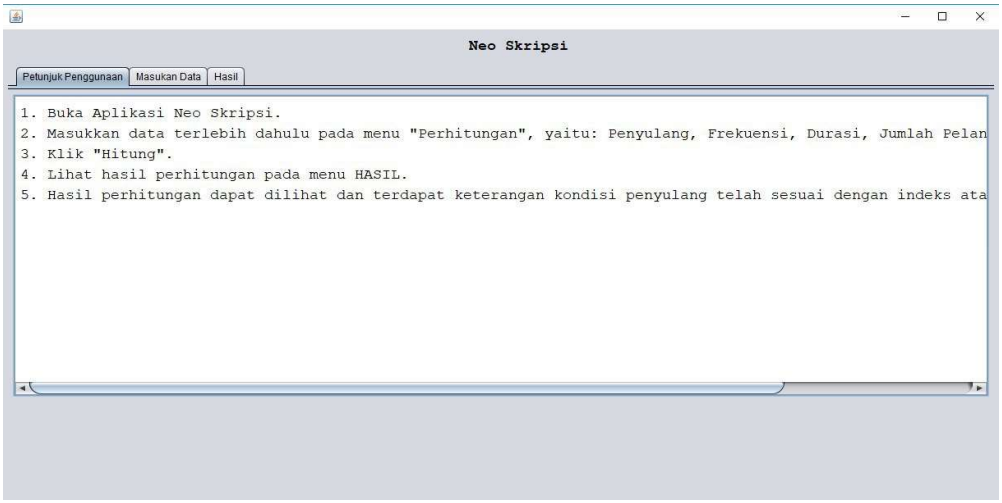
```
tz12.setText(" "+ caidi12);
asa12.setText(" "+ asai12);
asu12.setText(" "+ asui12);

if (saifi12<3.2) {
ah12.setText("OK");
}
else {
ah12.setText("TIDAK OK");
}
if (saidi12<21.09) {
ah24.setText("OK");
}
else {
ah24.setText("TIDAK OK");
}
if (saifi12<1.45) {
isf12.setText("OK");
}
else {
isf12.setText("TIDAK OK");
}
if (saidi12<2.3) {
isd12.setText("OK");
}
else {
isd12.setText("TIDAK OK");
}
if (caidi12<1.47) {
```

```
cd12.setText("OK");
}
else {
cd12.setText("TIDAK OK");
}
```

**Lampiran 4** Tampilan

**Tampilan Start**


**Tampilan Petunjuk Penggunaan**



## Tampilan Masukan Data


## Tampilan Hasil