Latihan

1. Buatlah program untuk menghitung gaji bersih dari seorang karyawan, dengan ketentuan sebagai berikut :
   - Karyawan memperoleh tunjangan istri 10% dari gaji pokok apabila statusnya sudah menikah.
   - Memperoleh tunjangan anak apabila mempunyai anak. Jumlah anak kecil dari 2 maka tunjangan anak 5% dari gaji pokok, sedangkan jumlah anak lebih besar dari 2 maka tunjangan anak 10% dari gaji pokok.
   - Gaji bersih diperoleh dari tunjangan istri + tunjangan anak + gaji pokok.

Penyelesaian :

- Algoritma :

1. **Init. nm, stts, ja, ti, ta, gp, gb.**
2. **Input nm, stts, ja, gp .**
3. **if (stts == '1') ti = gp*0.1**
   else if (stts == '2') ti = 0
   if (ja < 2) ta = gp*0.05
   else if (ja >= 2) ta = gp*0.1
   gb = ta + ti + gp
4. **Tampil nm, stts, ja, gp, gb.**

- Program :

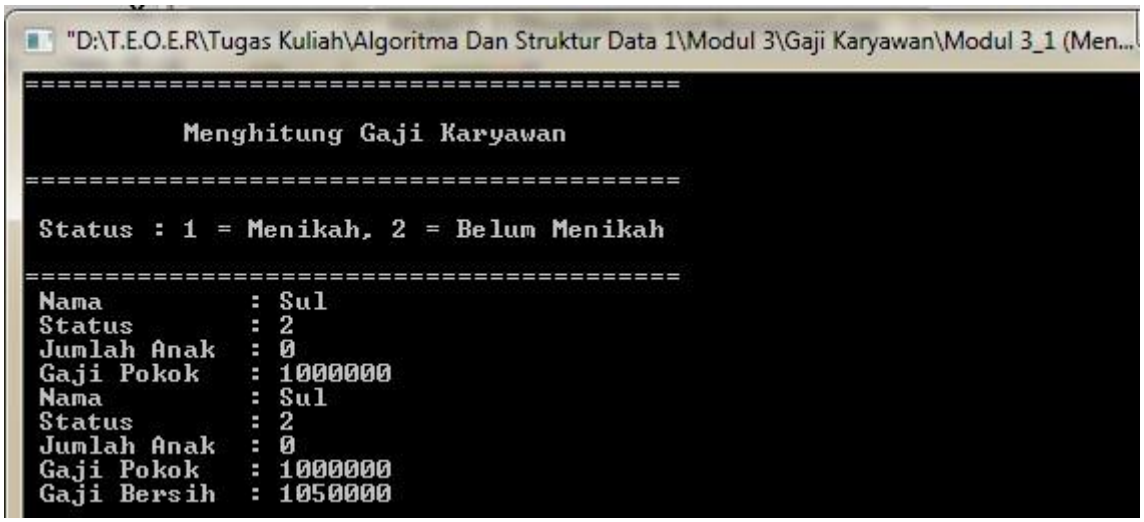
```
#include<iostream>

using namespace std;

int main()

{

   string nm;

   char stts;

   short ja;

   int ti, ta, gp, gb;

   cout<<"====================================="<<endl;

   cout<<"      Menghitung Gaji Karyawan    "<<endl;
```

```
    cout<<"====================================="<<endl;
    cout<<" Status : 1=Menikah, 2=Belum Menikah "<<endl;
    cout<<"====================================="<<endl;
    cout<<" Nama        :";getline(cin,nm);
    cout<<" Status      :";cin>>stts;
    cout<<" Jumlah Anak  :";cin>>ja;
    cout<<" Gaji Pokok   :";cin>>gp;
    if(stts=='1') ti=gp*0.1;
    else if(stts=='2') ti=0;
    if(ja<2) ta=gp*0.05;
    else if(ja>=2) ta=gp*0.1;
    gb=ta+ti+gp;
    cout<<" Nama       :"<<nm<<endl;
    cout<<" Status     :"<<stts<<endl;
    cout<<" Jumlah Anak :"<<ja<<endl;
    cout<<" Gaji Pokok  :"<<gp<<endl;
    cout<<" Gaji Bersih :"<<gb<<endl;

}
```

Hasilnya :

```
#include<iostream>
using namespace std;
int main()
{
    string nm;
    char stts;
    short ja;
    int ti, ta, gp, gb;
    cout<<"_____"<<endl;
    cout<<endl;
    cout<<"          Menghitung Gaji Karyawan       "<<endl;
    cout<<endl;
    cout<<"_____"<<endl;
    cout<<endl;
    cout<<" Status : 1 = Menikah, 2 = Belum Menikah "<<endl;
    cout<<endl;
    cout<<"_____"<<endl;
    cout<<" Nama          : ";getline(cin,nm);
    cout<<" Status        : ";cin>>stts;
    cout<<" Jumlah Anak   : ";cin>>ja;
    cout<<" Gaji Pokok    : ";cin>>gp;
    if(stts=='1') ti=gp*0.1;
    else if(stts=='2') ti=0;
    if(ja<2) ta=gp*0.05;
    else if(ja>=2) ta=gp*0.1;
    gb=ta+ti+gp;
    cout<<" Nama          : "<<nm<<endl;
    cout<<" Status        : "<<stts<<endl;
    cout<<" Jumlah Anak   : "<<ja<<endl;
    cout<<" Gaji Pokok    : "<<gp<<endl;
    cout<<" Gaji Bersih   : "<<gb<<endl;

}
```


"D:\T.E.O.E.R\Tugas Kuliah\Algoritma Dan Struktur Data 1\Modul 3\Gaji Karyawan\Modul 3_1 (Men..
Menghitung Gaji Karyawan
Status : 1 = Menikah, 2 = Belum Menikah
Nama : Sul
Status : 1
Jumlah Anak : 3
Gaji Pokok : 1000000
Nama : Sul
Status : 1
Jumlah Anak : 3
Gaji Pokok : 1000000
Gaji Bersih : 1200000


"D:\T.E.O.E.R\Tugas Kuliah\Algoritma Dan Struktur Data 1\Modul 3\Gaji Karyawan\Modul 3_1 (Men...
Menghitung Gaji Karyawan
Status : 1 = Menikah, 2 = Belum Menikah
Nama : Sul
Status : 2
Jumlah Anak : 0
Gaji Pokok : 1000000
Nama : Sul
Status : 2
Jumlah Anak : 0
Gaji Pokok : 1000000
Gaji Bersih : 1050000

2. Buatlah program untuk menghitung pemasangan baru rekening pelanggan PLN, dengan ketentuan sebagai berikut :

Jenis Pelanggan	Sambungan	Harga
Rumah Tangga	0 – 450 Watt	650000
	451 – 900 Watt	850000
	9001 – 1200 Watt	1200000
	1200 – 2200 Watt	1500000
	2201 – 4400 Watt	1750000
Industri	4401 – 9500 Watt	2250000
	9501 – 12000 Watt	2750000
	12001 – 16000 Watt	3250000
	16001 – 22000 Watt	4500000
	Diatas 22001	6700000

Ketentuan untuk pemasangan baru ditambah dengan Ppn 10% dan administrasi 5% dari harga untuk setiap sambungan.

Penyelesaian :

- Algoritma :

1. **Inisialisasi ket, nmp, alp, jp, smb, hrg, hpb.**
2. **Input nmp, alp, jp, smb.**
3. **If (jp='1')**

```
        If ( smb==1 ) {
        ket = "0-400"
        hrg = "650000'
        hpb = hrg+(hrg*0.1)+(hrg*0.05)
    }
        else If ( smb==2 ) {
        ket = "451-900"
        hrg = "850000"
        hpb = hrg+(hrg*0.1)+(hrg*0.05)
   }
         else if(smb==3){
        ket="9001-1200";
        hrg=1200000;
```

```
        hpb=hrg+(hrg*0.1)+(hrg*0.05);
    }
        else if(smb==4){
        ket="1200-2200";
        hrg=1500000;
        hpb=hrg+(hrg*0.1)+(hrg*0.05);
    }
        else if(smb==5){
        ket="2201-4400";
        hrg=17500000;
        hpb=hrg+(hrg*0.1)+(hrg*0.05);
    }

    if(jp=='2')
        if(smb==1){
        ket="4401-9500";
         hrg=2250000;
        hpb=hrg+(hrg*0.1)+(hrg*0.05);
    }
        else if(smb==2){
        ket="9501-12000";
        hrg=2750000;
        hpb=hrg+(hrg*0.1)+(hrg*0.05);
    }
        else if(smb==3){
        ket="12001-16000";
        hrg=3250000;
        hpb=hrg+(hrg*0.1)+(hrg*0.05);
    }
        else if(smb==4){
        ket="16001-22000";
        hrg=4500000;
        hpb=hrg+(hrg*0.1)+(hrg*0.05);
    }
        else if(smb==5){
        ket="di atas 22001";
        hrg=6700000;
        hpb=hrg+(hrg*0.1)+(hrg*0.05);
    }
```

4. Tampil nmp, alp, smb, hrg, hpb.

- **Program :**

```
#include<iostream>
using namespace std;
int main()
{
  string ket, nmp, alp;
  char jp;
  int smb, hrg, hpb;
  cout<<"              JENIS PELANGGAN              "<<endl;
  cout<<"=================================================="<<endl;
  cout<<"Rumah Tangga (1) |"<<" (1) 0-400 watt      = 650000  |"<<endl;
  cout<<"                 "<<" (2) 451-900 watt    = 850000  |"<<endl;
  cout<<"                 "<<" (3) 9001-1200 watt  = 1200000 |"<<endl;
  cout<<"                 "<<" (4) 1200-2200 watt  = 1500000 |"<<endl;
  cout<<"                 "<<" (5) 2201-4400 watt  = 1750000 |"<<endl;
  cout<<"=================================================="<<endl;
  cout<<"Industri    (2) |"<<" (1) 4401-9500 watt  = 2250000 |"<<endl;
  cout<<"                 "<<" (2) 9501-12000 watt  = 2750000 |"<<endl;
  cout<<"                 "<<" (3) 12001-16000 watt = 3250000 |"<<endl;
  cout<<"                 "<<" (4) 16001-22000 watt = 4500000 |"<<endl;
  cout<<"                 "<<" (5) Diatas 22001     = 6700000 |"<<endl;
  cout<<"=================================================="<<endl;

  cout<<" Nama Pelanggan   :";getline(cin,nmp);
  cout<<" Alamat Pelanggan  :";getline(cin,alp);
  cout<<" Jenis Pelanggan   :";cin>>jp;
  cout<<" Sambungan         :";cin>>smb;

  if(jp=='1')
  if(smb==1){
  ket="0-400";
  hrg=650000;
  hpb=hrg+(hrg*0.1)+(hrg*0.05);
  }
  else if(smb==2){
  ket="451-900";
  hrg=850000;
  hpb=hrg+(hrg*0.1)+(hrg*0.05);
  }
  else if(smb==3){
  ket="9001-1200";
  hrg=1200000;
  hpb=hrg+(hrg*0.1)+(hrg*0.05);
  }
  else if(smb==4){
  ket="1200-2200";
  hrg=1500000;
  hpb=hrg+(hrg*0.1)+(hrg*0.05);
```

```
}
else if(smb==5){
ket="2201-4400";
hrg=17500000;
hpb=hrg+(hrg*0.1)+(hrg*0.05);
}

if(jp=='2')
if(smb==1){
ket="4401-9500";
hrg=2250000;
hpb=hrg+(hrg*0.1)+(hrg*0.05);
}
else if(smb==2){
ket="9501-12000";
hrg=2750000;
hpb=hrg+(hrg*0.1)+(hrg*0.05);
}
else if(smb==3){
ket="12001-16000";
hrg=3250000;
hpb=hrg+(hrg*0.1)+(hrg*0.05);
}
else if(smb==4){
ket="16001-22000";
hrg=4500000;
hpb=hrg+(hrg*0.1)+(hrg*0.05);
}
else if(smb==5){
ket="di atas 22001";
hrg=6700000;
hpb=hrg+(hrg*0.1)+(hrg*0.05);
}

cout<<"========================"<<endl;
cout<<" Rekening Pelanggan PLN "<<endl;
cout<<"========================"<<endl;
cout<<" Nama Pelanggan       :"<<nmp<<endl;
cout<<" Alamat Pelanggan     :"<<alp<<endl;
cout<<" Sambungan            :"<<smb<<endl;
cout<<" Harga                :"<<hrg<<endl;
cout<<" Harga Pemasangan Baru :"<<hpb<<endl;
cout<<"========================"<<endl;
cout<<"      Terima Kasih    "<<endl;
cout<<"========================"<<endl;


}
```

Hasilnya :

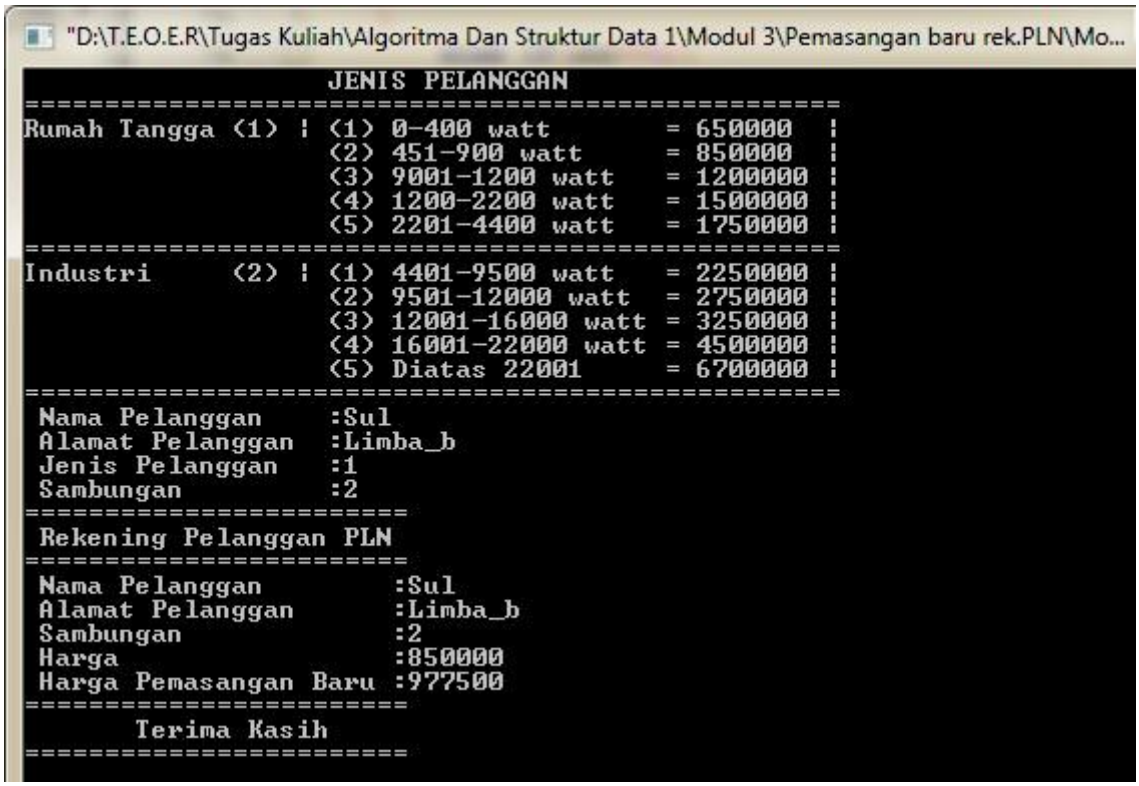
```
#include<iostream>
using namespace std;
int main()
{
    string ket, nmp, alp;
    char jp;
    int smb, hrg, hpb;
    cout<<"                    JENIS PELANGGAN                  "<<endl;
    cout<<"=====================================================<<endl;
    cout<<"Rumah Tangga (1) |"<<" (1) 0-400 watt       = 650000  |"<<endl;
    cout<<"                 "<<" (2) 451-900 watt     = 850000  |"<<endl;
    cout<<"                 "<<" (3) 9001-1200 watt   = 1200000 |"<<endl;
    cout<<"                 "<<" (4) 1200-2200 watt   = 1500000 |"<<endl;
    cout<<"                 "<<" (5) 2201-4400 watt   = 1750000 |"<<endl;
    cout<<"=====================================================<<endl;
    cout<<"Industri     (2) |"<<" (1) 4401-9500 watt   = 2250000 |"<<endl;
    cout<<"                 "<<" (2) 9501-12000 watt  = 2750000 |"<<endl;
    cout<<"                 "<<" (3) 12001-16000 watt = 3250000 |"<<endl;
    cout<<"                 "<<" (4) 16001-22000 watt = 4500000 |"<<endl;
    cout<<"                 "<<" (5) Diatas 22001     = 6700000 |"<<endl;
    cout<<"=====================================================<<endl;

```

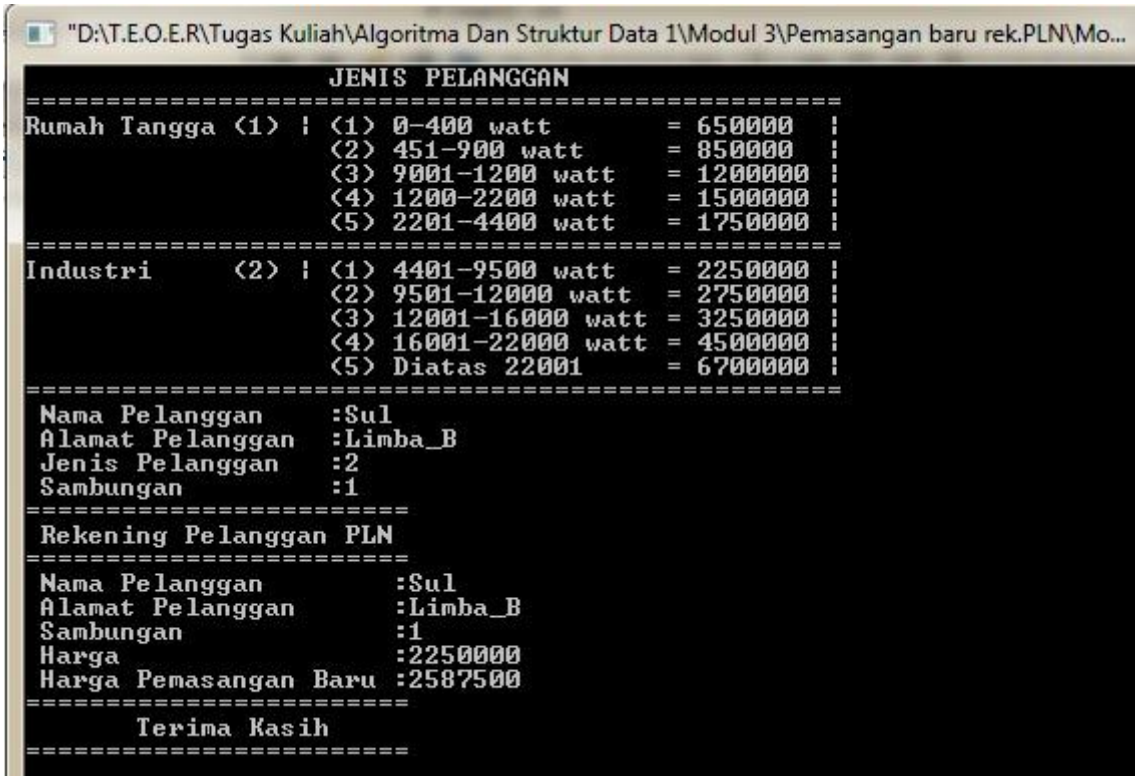
```
    cout<<" Nama Pelanggan    :";getline(cin,nmp);
    cout<<" Alamat Pelanggan  :";getline(cin,alp);
    cout<<" Jenis Pelanggan   :";cin>>jp;
    cout<<" Sambungan         :";cin>>smb;

    if(jp=='1')
        if(smb==1){
        ket="0-400";
        hrg=650000;
        hpb=hrg+(hrg*0.1)+(hrg*0.05);
    }
        else if(smb==2){
        ket="451-900";
        hrg=850000;
        hpb=hrg+(hrg*0.1)+(hrg*0.05);
    }
        else if(smb==3){
        ket="9001-1200";
        hrg=1200000;
        hpb=hrg+(hrg*0.1)+(hrg*0.05);
    }
        else if(smb==4){
```

```
45          ket="1200-2200";
46          hrg=1500000;
47          hpb=hrg+(hrg*0.1)+(hrg*0.05);
48      }
49          else if(smb==5){
50          ket="2201-4400";
51          hrg=17500000;
52          hpb=hrg+(hrg*0.1)+(hrg*0.05);
53      }
54
55      if(jp=='2')
56          if(smb==1){
57          ket="4401-9500";
58          hrg=2250000;
59          hpb=hrg+(hrg*0.1)+(hrg*0.05);
60      }
61          else if(smb==2){
62          ket="9501-12000";
63          hrg=2750000;
64          hpb=hrg+(hrg*0.1)+(hrg*0.05);
65      }
66          else if(smb==3){
```

```
67          ket="12001-16000";
68          hrg=3250000;
69          hpb=hrg+(hrg*0.1)+(hrg*0.05);
70      }
71          else if(smb==4){
72          ket="16001-22000";
73          hrg=4500000;
74          hpb=hrg+(hrg*0.1)+(hrg*0.05);
75      }
76          else if(smb==5){
77          ket="di atas 22001";
78          hrg=6700000;
79          hpb=hrg+(hrg*0.1)+(hrg*0.05);
80      }
81
82      cout<<"========================"<<endl;
83      cout<<" Rekening Pelanggan PLN "<<endl;
84      cout<<"========================"<<endl;
85      cout<<" Nama Pelanggan         :"<<nmp<<endl;
86      cout<<" Alamat Pelanggan       :"<<alp<<endl;
87      cout<<" Sambungan              :"<<smb<<endl;
88      cout<<" Harga                  :"<<hrg<<endl;
```

```
89      cout<<" Harga Pemasangan Baru :"<<hpb<<endl;
90      cout<<"========================"<<endl;
91      cout<<"       Terima Kasih     "<<endl;
92      cout<<"========================"<<endl;
93
94
95  }
96
```




"D:\T.E.O.E.R\Tugas Kuliah\Algoritma Dan Struktur Data 1\Modul 3\Pemasangan baru rek.PLN\Mo...
JENIS PELANGGAN
Rumah Tangga (1) : (1) 0-400 watt = 650000 :
(2) 451-900 watt = 850000 :
(3) 9001-1200 watt = 1200000 :
(4) 1200-2200 watt = 1500000 :
(5) 2201-4400 watt = 1750000 :
Industri (2) : (1) 4401-9500 watt = 2250000 :
(2) 9501-12000 watt = 2750000 :
(3) 12001-16000 watt = 3250000 :
(4) 16001-22000 watt = 4500000 :
(5) Diatas 22001 = 6700000 :
Nama Pelanggan :Sul
Alamat Pelanggan :Limba_B
Jenis Pelanggan :2
Sambungan :1
Rekening Pelanggan PLN
Nama Pelanggan :Sul
Alamat Pelanggan :Limba_B
Sambungan :1
Harga :2250000
Harga Pemasangan Baru :2587500
Terima Kasih