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Mata Kuliah : Praktikum Pengantar Pemrograman

Ujian Tengah Semester

Source Code:

```
#include <iostream>
#include <bits/stdc++.h>
using namespace std;

//fungsi proses
void proses(int harga, int jumlah, float diskon){
    cout << "=====" << endl;
    int total = harga * jumlah;
    cout << "Harga Total : Rp" << total << endl;
    float hargaDiskon = total * diskon;
    cout << "Diskon : Rp" << hargaDiskon << endl;
    cout << "=====" << endl;
    int subTotal = total - hargaDiskon;
    cout << "Sub Total : Rp" << subTotal << endl;
    int ppn = subTotal * 0.1;
    cout << "PPN 10% : Rp" << ppn << endl;
    cout << "=====" << endl;
    int grandTotal = subTotal + ppn;
    cout << "Grand Total : Rp" << grandTotal << endl;
    cout << "Bayar : Rp";
    int bayar;
    cin >> bayar;
    int kembalian = bayar - grandTotal;
    cout << "Kembalian : Rp" << kembalian << endl;
    cout << "=====" << endl;
    cout << " Terima Kasih Atas Kunjungan Anda 😊" << endl;
}

int main(){
    // record data barang
    struct dataBarang{
        string kode;
        string nama;
        int harga;
        float diskon;
    }tepung, margarin, gula, minyak;

    tepung.kode = "D012";
    tepung.nama = "Tepung Terigu 1kg";
    tepung.harga = 12000;
    tepung.diskon = 0.05;

    margarin.kode = "D013";
    margarin.nama = "Margarin 1kg";
    margarin.harga = 5600;
    margarin.diskon = 0;
```

```

gula.kode = "D014";
gula.nama = "Gula 1kg";
gula.harga = 9600;
gula.diskon = 0.07;

minyak.kode = "D015";
minyak.nama = "Minyak Sayur 1kg";
minyak.harga = 6500;
minyak.diskon = 0.0025;

// program utama
string kode;
int jumlah;
cout << "                               Swalayan" << endl;
cout << "===== " << endl;
cout << "Kode Barang   : "; cin >> kode;
transform(kode.begin(), kode.end(), kode.begin(), ::toupper);

if(kode == "D012"){
    cout << "Nama Barang   : " << tepung.nama << endl;
    cout << "Harga Barang   : " << tepung.harga << endl;
    cout << "Jumlah Beli    : "; cin >> jumlah;
    proses(tepung.harga, jumlah, tepung.diskon);
}else if(kode == "D013"){
    cout << "Nama Barang   : " << margarin.nama << endl;
    cout << "Harga Barang   : " << margarin.harga << endl;
    cout << "Jumlah Beli    : "; cin >> jumlah;
    proses(margarin.harga, jumlah, tepung.diskon);
}else if(kode == "D014"){
    cout << "Nama Barang   : " << gula.nama << endl;
    cout << "Harga Barang   : " << gula.harga << endl;
    cout << "Jumlah Beli    : "; cin >> jumlah;
    proses(gula.harga, jumlah, tepung.diskon);
}else if(kode == "D015"){
    cout << "Nama Barang   : " << minyak.nama << endl;
    cout << "Harga Barang   : " << minyak.harga << endl;
    cout << "Jumlah Beli    : "; cin >> jumlah;
    proses(minyak.harga, jumlah, tepung.diskon);
}else{
    cout << "Kode Barang tidak valid!";
    return 0;
}

return 0;
}

```

Output:

```

                                Swalayan
=====
Kode Barang      : D013
Nama Barang      : Margarin 1kg
Harga Barang     : 5600
Jumlah Beli      : 2
=====
Harga Total      : Rp11200
Diskon           : Rp560
=====
Sub Total        : Rp10640
PPN 10%          : Rp1064
=====
Grand Total      : Rp11704
Bayar            : Rp12000
Kembalian        : Rp296
=====
                Terima Kasih Atas Kunjungan Anda 😊

```