**Lembar jawaban uts**

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1. Soal Suhu

#include<iostream>

#include<cmath>

#include<iomanip>

using namespace std;

int main () {

float hasil,suhu;

int pilihan;

cout<<"\n\tPROGRAM KONVERSI SUHU\n\n";

cout<<"-Celcius    [ C ]\n";

cout<<"-Fahrenheit [ F ]\n";

cout<<"-Reamur     [ R ]\n";

cout<<"-Kelvin     [ K ]\n\n";

cout<<"1.C -> F\n";

cout<<"2.F -> C\n";

cout<<"3.R -> F\n";

cout<<"4.F -> R\n";

cout<<"5.K -> C\n";

cout<<"6.K -> F\n";

cout<<"7.K -> R\n";

cout<<"8.C -> K\n";

cout<<"9.F -> K\n";

cout<<"10.R -> K\n";

cout<<"Masukan Pilihan anda :";

cin>> pilihan;

switch (pilihan) {

case 1:

    cout<<"Masukan suhu dalam celcius :";

    cin>>suhu ;

    hasil=9/5\*suhu+32;

    cout<<"Suhu dalam Fahrenheit =" << hasil << endl;

    break;

case 2:

    cout<<"Masukan suhu dalam Fahrenheit :";

    cin>>suhu ;

    hasil=5/9\*(suhu-32);

    cout<<"Suhu dalam celcius =" << hasil << endl;

    break;

case 3:

    cout<<"Masukan suhu dalam Reamur :";

    cin>>suhu ;

    hasil=(9/4\*suhu)+32;

    cout<<"suhu dalam Fahrenheit =" << hasil << endl;

    break;

case 4:

    cout<<"Masukan suhu dalam Fahrenheit :";

    cin>>suhu ;

    hasil=4/9\*(suhu-32); cout<<"suhu dalam Reamur =" << hasil << endl;

    break;

case 5:

    cout<<"Masukan suhu dalam Kelvin :";

    cin>>suhu ;

    hasil=suhu-273,15;

    cout<<"suhu dalam Celcius =" << hasil << endl;

case 6:

    cout<<"Masukan suhu dalam Kelvin :";

    cin>>suhu ;

    hasil=(9/5\*suhu)-459,67;

    cout<<"suhu dalam Fahrenheit =" << hasil << endl;

    break;

case 7:

    cout<<"masukan suhu dalam Kelvin :";

    cin>>suhu ;

    hasil=4/5\*suhu-273,15;

    cout<<"suhu dalam Reamur =" << hasil << endl;

    break;

case 8:

    cout<<"Masukan suhu dalam Celcius :";

    cin>>suhu ;

    hasil=(5/5\*suhu)+273,15;

    cout<<"suhu dalam kelvin =" << hasil << endl;

case 9:

    cout<<"Masukan suhu dalam Fahrenheit :";

    cin>>suhu;

    hasil=(suhu+459,67)/1,4;

    cout<<"suhu dalam kelvin =" << hasil << endl;

    break;

case 10:

    cout<<"masukan suhu dalam Reamur :";

    cin>>suhu;

    hasil=(5/4\*suhu)+273,15;

    cout<<"suhu dalam kelvin =" << hasil << endl;

    break;

default:

cout<<"Apa anda belum sahur?"<< endl;

break;

}

return 0;

}

1. Soal pi

#include <iostream>

#include <cmath>

#include <iomanip>

using namespace std;

int main(int argc, char const \*argv[])

{

    double pi,x,y;

    for(int i=10000;i>=0;i--){

        x=4\*pow(i,2);

        y=(4\*pow(i,2))-1;

        if  (y==0){

            pi = 0;

        }else{

            pi = 2\*(x/y);

        }

        cout<<pi<<endl;

    }

    return 0;

}

1. Soal kasir

#include <iostream>

#include <string>

#include <iomanip>

using namespace std;

int main() {

    int jum\_beli, bayar,diskon,jumlah[50], harga[50], sub\_tot[50];

    string nama\_barang[50];

    float tot;

    cout<<"PROGRAM C++ KASIR"<<endl;

    cout<<"---------------------------"<<endl;

    cout<<endl;

    cout<<"Masukan Jumlah Beli : ";

    cin>>jum\_beli;

    for (int i=0; i<jum\_beli;i++){

        cout<<endl;

        cout<<"Masukan Barang Ke-"<<i+1<<endl;

        cout<<endl;

        cout<<"Nama Barang : ";

        cin>>nama\_barang[i];

        cout<<"Jumlah      : ";

        cin>>jumlah[i];

        cout<<"Harga       : ";

        cin>>harga[i];

        sub\_tot[i]=jumlah[i]\*harga[i];

        tot+=sub\_tot[i];

    }

    cout<<endl;

    cout<<"STRUK BELANJA MINI MARKET ABC"<<endl;

    cout<<"---------------------------------------------------------"<<endl;

    cout<<"No   Barang    Jumlah     Harga     Sub Total"<<endl;

    for (int i=0;i<jum\_beli;i++){

        cout<<i+1<<setw(8)<<nama\_barang[i]<<setw(10)<<jumlah[i]<<setw(12)<<harga[i]<<setw(12)<<sub\_tot[i]<<endl;

    }

    cout<<"---------------------------------------------------------"<<endl;

    if (tot>=40000){

        diskon=(tot/40000)\*3000;

    }else {

        diskon=0;

    }

    cout<<"Jumlah Bayar : Rp."<<tot<<endl;

    cout<<"Diskon       : Rp."<<diskon<<endl;

    cout<<"Total Bayar  : Rp."<<tot-diskon<<endl;

    cout<<"Bayar        : Rp.";

    cin>>bayar;

    cout<<"Kembali      : Rp."<<(bayar-(tot-diskon))<<endl;

    return 0;

}