**1.Tinh phan Nguyen, phan Du**

#include <iostream>

using namespace std;

int main()

{

int a,b;

cout<<"Nhap vao hai so nguyen a,b\n";

cin>>a>>b;

int nguyen = a / b;

int du = a % b;

cout<<"Phan nguyen la "<<nguyen<<endl;

cout<<"Phan du la "<<du<<endl;

return 0;

}

**2.Tinh chu vi, dien tich hinh tron**

#include <iostream>

#include <iomanip>

using namespace std;

int main()

{

int r;

float pi=3.14;

cout<<"Nhap vao ban kinh\n";

cin>>r;

float c = 2\*pi\*r;

float s = pi\*r\*r;

cout<<"Chu vi la "<<fixed<<setprecision(2)<<c<<endl;

cout<<"Dien tich la"<<fixed<<setprecision(2)<<s<<endl;

return 0;

}

//fixed, setprecision(2) dung de lay hai chu so le

**3.Chuyen do C -> F**

#include <iostream>

#include <iomanip>

using namespace std;

int main()

{

int c;

cout<<"Nhap vao do C\n";

cin>>c;

float f = (c \* 9 / 5) + 32;

cout<<"Do F la "<<fixed<<setprecision(2)<<f<<endl;

return 0;

}

**4.Tim so lon nhat trong 2 so**

#include <iostream>

using namespace std;

int main()

{

int a,b;

cout<<"Nhap vao hai so nguyen a,b\n";

cin>>a>>b;

if (a>b)

cout<<"So lon nhat la "<<a<<endl;

else

cout<<"So lon nhat la "<<b<<endl;

return 0;

}

**5.Tinh tien thue phong**

#include <iostream>

using namespace std;

int main()

{

const int dongiatuan = 500000;

const int dongiangay = 100000;

int tongsongay;

cout<<"Nhap so ngay thue\n";

cin>> tongsongay;

int sotuan = tongsongay / 7;

int songayle = tongsongay - (sotuan\*7);

cout<<"So tuan khach thue "<<sotuan<<endl;

cout<<"So ngay khach thue"<<songayle<<endl;

int tienphaitra = sotuan\* dongiatuan + songayle\* dongiangay;

cout<<"Tien phai tra "<<tienphaitra<<endl;

return 0;

}

**6.Tinh tien san bong da**

#include <iostream>

using namespace std;

int main()

{

int motbinhnuoc = 20.000;

int mottieng = 200.000;

int a;

cout<<"Nhap vao tong so gio vao ra\n";

cin>>a;

int b;

cout<<"Nhap vao so binh nuoc\n";

cin>>b;

int tongtienda = a\*mottieng;

int tongtiennuoc = b\*motbinhnuoc;

cout<<"tong tien da la "<<tongtienda<<endl;

cout<<"tong tien nuoc la "<<tongtiennuoc<<endl;

int sotienphaitra = tongtienda + tongtiennuoc;

cout<<"tong tien phai tra la "<<sotienphaitra<<endl;

return 0;

}

**7.Tinh so nam sinh**

#include <iostream>

using namespace std;

int main()

{

int a;

int namhienhanh = 2023;

cout<<"Nhap vao so tuoi\n";

cin>>a;

int namsinh = namhienhanh - a;

cout<<"Nam sinh la "<<namsinh<<endl;

return 0;

}

**8.Tinh gia tri bieu thuc f(x)**

#include <iostream>

using namespace std;

int main()

{

int x;

cout<<"Nhap vao x \n";

cin>>x;

float fx = (3\*x\*x + 4\*x + 5)/(2\*x + 1);

cout<<"F(x) = "<<fx<<endl;

return 0;

}

**9. Tinh gia tri bieu thuc f(x)**

#include<math.h>

#include <iostream>

using namespace std;

int main()

{

int x;

cout<<"Nhap vao x \n";

cin>>x;

float fx = (3\*x\*x\*x\*x\*x + 2\*x + sqrt(x+1)) / (5\*x\*x - 3);

cout<<"F(x) = "<<fx<<endl;

return 0;

}

**10.Tim so lon nhat trong 3 so**

#include <iostream>

using namespace std;

int main()

{

int a,b,c;

cout<<"Nhap vao 3 so nguyen \n";

cin>>a>>b>>c;

int max = a;

if (b>max){

max = b;}

if (c>max){

max = c;}

cout<<"Max la "<<max<<endl;

return 0;

}

**11. a co la boi so cua b khong**

#include <iostream>

using namespace std;

int main()

{

int a,b;

cout<<"Nhap vao hai so a,b\n";

cin>>a>>b;

if (a%b==0)

cout<<"a la boi so của b "<<endl;

else

cout<<"a khong phai la boi so cua b"<<endl;

return 0;

}

**12.Giai Phuong trinh bac 1**

#include <iostream>

using namespace std;

int main()

{

float a,b;

cout<<"Nhap hai so a,b\n";

cin>>a>>b;

if (a!=0){

float x= -b/a;

cout<<"Phuong trinh co mot nghiem x= "<<x<<endl;}

else

if (a==0, b==0)

cout<<"Phuong trinh co vo so nghiem"<<endl;

else

if (a==0, b!=0)

cout<<"Phuong trinh vo nghiem "<<endl;

return 0;

}

**13.Tong phan Nguyen va hai so thap phan so thuc**

#include <iomanip>

#include <iostream>

using namespace std;

int main()

{

float a;

cout<<"Nhap mot so thuc a\n";

cin>>a;

float c = a - (int)a;

cout<<"Phan nguyen cua so thuc la "<<(int)a<<endl;

cout<<"So thuc voi hai so thap phan "<<fixed<<setprecision(2)<<a<<endl;

cout<<"Thap phan cua so thuc "<<c<<endl;

float tong = (int)a + c;

cout<<"Tong phan nguyen va hai so thap phan "<<tong<<endl;

return 0;

}

**14.Thue va gia tri gia tang phai tra**

#include <iostream>

using namespace std;

int main()

{

char str[100];

cout<<"Nhap vao ten san pham\n";

cin>> str;

cout<<"ten san pham "<<str<<endl;

int a,b;//so luong ма don gia

cout<<"Nhap vao so luong, don gia\n";

cin>>a>>b;

int tien= a\*b;

float thue=0.1 \* tien;

cout<<"tien la "<<tien<<endl;

cout<<"thue gia tri gia tang la "<<thue<<endl;

return 0;

}

**23.Tinh diem trung binh**

#include <iostream>

using namespace std;

int main()

{

float t,l,h,v,a,s;

cout<< "Nhap vao diem toan, ly, hoa, van, anh, su\n";

cin>>t>>l>>h>>v>>a>>s;

float dtb=(t+l+h+v+a+s)/6;

cout<< "diem tb= "<<dtb<<endl;

if ((dtb>=8)&&(t>=6.5)&&(h>=6.5)&&(v>=6.5)&&(a>=6.5)&&(s>=6.5)){

cout<< "Gioi";}

else

if ((dtb>=7)&&(t>=5)&&(h>=5)&&(v>=5)&&(a>=5)&&(s>=5)){

cout<< "Kha";}

else

if ((dtb>=5)&&(t>=3.5)&&(h>=3.5)&&(v>=3.5)&&(a>=3.5)&&(s>=3.5)){

cout<< "Trung Binh";}

else

cout<< "Yeu";

return 0; }

**15.Tinh diem trung binh cua sinh vien**

#include <iostream>

using namespace std;

int main()

{

float toan, ly, hoa;

int he\_so\_toan, he\_so\_ly, he\_so\_hoa;

// Nhập điểm thi và hệ số của từng môn

cout << "Nhap diem Toan: ";

cin >> toan;

cout << "Nhap he so Toan: ";

cin >> he\_so\_toan;

cout << "Nhap diem Ly: ";

cin >> ly;

cout << "Nhap he so Ly: ";

cin >> he\_so\_ly;

cout << "Nhap diem Hoa: ";

cin >> hoa;

cout << "Nhap he so Hoa: ";

cin >> he\_so\_hoa;

float diem\_trung\_binh = (toan \* he\_so\_toan + ly \* he\_so\_ly + hoa \* he\_so\_hoa) / (he\_so\_toan + he\_so\_ly + he\_so\_hoa);

cout << "Diem trung binh cua sinh vien: " << diem\_trung\_binh << endl;

return 0;

}

**16.Tinh dien tich, chu vi, do dai duong cheo HCN**

#include <iostream>

#include <math.h>

using namespace std;

int main()

{

int a,b;

cout<<"Nhap vao 2 canh HCN\n";

cin>>a>>b;

int s = a \* b;

cout<<"Dien tich HCN "<<s<<endl;

int c = (a + b) \* 2;

cout<<"Chu vi HCN "<<c<<endl;

float duongcheo = sqrt(a\*a + b\*b);

cout<<"Do dai duong cheo "<<duongcheo<<endl;

return 0;

}

**17.Kiem tra ky tu**

#include <iostream>

using namespace std;

int main()

{

char ky\_tu;

cout << "Nhap ky tu: ";

cin >> ky\_tu;

if (ky\_tu >= 'A' && ky\_tu <= 'Z')

cout << "Ky tu in hoa" << endl;

else if (ky\_tu >= 'a' && ky\_tu <= 'z')

cout << "Ky tu thuong" << endl;

else

cout << "Ky tu khac" << endl;

return 0;

}

**18.Chu cai tieng anh**

#include <iostream>

using namespace std;

int main() {

char ky\_tu;

cout << "Nhap ky tu: ";

cin >> ky\_tu;

if ((ky\_tu >= 'A' && ky\_tu <= 'Z') || (ky\_tu >= 'a' && ky\_tu <= 'z'))

cout << "Ky tu la mot chu cai tieng Anh" << endl;

else

cout << "Ky tu khong phai la chu cai tieng Anh" << endl;

return 0;

}

**19.Trùng**

**20.**

#include <iostream>

using namespace std;

int main()

{

int i;

int a = 20 + ++i + i++;

cout<<"Nhap i \n";

cin>>i;

cout << "Bieu thuc 20 + ++i + i++ co ket qua la: " << a << "; i=" << i << endl;

return 0;

}

**21.Giai pt bac 2**

#include <iostream>

#include <cmath>

using namespace std;

int main()

{

float a, b, c;

float delta, x1, x2;

cout << "Nhap a: ";

cin >> a;

cout << "Nhap b: ";

cin >> b;

cout << "Nhap c: ";

cin >> c;

delta = b \* b - 4 \* a \* c;

if (delta < 0)

cout << "Phuong trinh vo nghiem" << endl;

else

if (delta == 0){

x1 = x2 = -b / (2 \* a);

cout << "Phuong trinh co nghiem kep x1 = x2 = " << x1 << endl;}

else{

x1 = (-b + sqrt(delta)) / (2 \* a);

x2 = (-b - sqrt(delta)) / (2 \* a);

cout << "Phuong trinh co 2 nghiem phan biet: x1 = " << x1 << ", x2 = " << x2 << endl;}

return 0; }

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**24.Tinh tien karaoke**

#include <iostream>

using namespace std;

int main()

{

int start, end;

cout<<"Nhập vào giờ bắt đầu và kết thúc\n";

cin>>start>>end;

int gio = end - start;

int tien1,tien2;

if (start>=10&&end<=17){

tien1 = 20000 \* gio;

cout<<"Tien phai tra "<<tien1<<endl;}

else if (start>=10&&end<=24){

tien2 = 45000\*(end - 17) + 20000\*(17 - start);

cout<<"Tien phai tra "<<tien2<<endl;}

return 0;

}

**25.Tinh tien dien**

#include <iostream>

using namespace std;

int main()

{

int KW;

cout<<"Nhap muc tieu thu dien KW";

cin>>KW;

int tien;

if (KW<=100){

tien = 5 \* KW;}

else if (KW<=150){

tien = 5 \*100 + 7 \* (KW - 100); }

else if (KW<=200) {

tien = 10 \* (KW-150) + (7\*50) + (5\*100);}

else if (KW<=300) {

tien = 15 \* (KW-200) + (10\*50) + (7\*50) + (5\*100);}

else {

tien = 20 \* (KW-300) + (15\*100) + (10\*50) + (7\*50) + (5\*100);}

cout<<"Tien dien la "<<tien<<endl;

return 0;

}

**26.tam giac**

#include <iostream>

using namespace std;

int main()

{

int a, b, c;

cout << "Nhap vao 3 so nguyen a, b, c: ";

cin >> a >> b >> c;

if (a + b > c && a + c > b && b + c > a) {

cout << "Day la 3 canh cua mot tam giac.\n";

if (a == b && b == c && a == c) {

cout << "Tam giac nay la tam giac deu.\n";

}

else if (a == b && a == c) {

cout << "Tam giac nay la tam giac can.\n";

}

else if (a \* a + b \* b == c \* c && b \* b + c \* c == a \* a && c \* c + a \* a == b \* b) {

cout << "Tam giac nay la tam giac vuong.\n";

}

else{

cout << "Tam giac nay la tam giac thuong.\n";

}

}

else{

cout << "Day khong phai la 3 canh cua mot tam giac.\n";

}

return 0;

}

**27.Tinh tb mon lap trinh**

#include <iostream>

#include <cmath>

using namespace std;

int main()

{

// Nhập điểm từng cột và hệ số của môn học

float d1, d2, d3, d4, hs;

cout << "Nhap diem cua tung cot diem (cot 1, cot 2, cot 3, cot 4): ";

cin >> d1 >> d2 >> d3 >> d4;

cout << "Nhap he so cua mon hoc: ";

cin >> hs;

// Tính điểm trung bình và xuất ra màn hình

float dtb = (d1 + d2 + d3 + d4) / 4 \* hs;

cout << "Diem trung binh cua mon hoc la: " << dtb << endl;

// Đổi điểm sang hệ chữ

if (dtb >= 8.5) {

cout << "Diem chu: A";

} else if (dtb >= 7) {

cout << "Diem chu: B";

} else if (dtb >= 5.5) {

cout << "Diem chu: C";

} else if (dtb >= 4) {

cout << "Diem chu: D";

} else {

cout << "Diem chu: F";

}

return 0; }