Bai 1

#include <iostream>

using namespace std;

int main()

{

float a,b,c;

cout<<"Nhap vao diem tieu luan, giua ky, cuoi ky\n";

cin >>a>>b>>c;

float diemtb = 0.2\*a + 0.3\*b + 0.5\*c;

cout<<"Diemtb"<<diemtb<<endl;

if (diemtb >=8.5){

cout<<"A"<<endl;

}

else if (diemtb >=7.0 && diemtb <8.5){

cout<<"B"<<endl;

}

else if (diemtb >=5.5 && diemtb <7.0){

cout<<"C"<<endl;

}

else if (diemtb >=4.0 && diemtb <5.5){

cout<<"D"<<endl;

}

else{

cout<<"F"<<endl;

}

return 0;

}

Bai 2

#include <iostream>

using namespace std;

int main()

{

int a,b,c=0;

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

cin>>a>>b;

char pheptoan;

cout<<"Nhap mot phep toan\n";

cin>> pheptoan;

switch (pheptoan)

{

case '+':

c = a + b;

cout<<"a + b ="<<c<<endl;

break;

case '-':

c = a - b;

cout<<"a - b ="<<c<<endl;

break;

case '\*':

c = a \* b;

cout<<"a \* b ="<<c<<endl;

break;

case '/':

c = a / b;

cout<<"a / b ="<<c<<endl;

break;

default: cout<<"Nhap sai ky tu hoac so";

}

return 0;

}

Bai 3

#include <iostream>

using namespace std;

int main()

{

int ngay;

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

cin>> ngay;

switch (ngay)

{

case 1: cout<<"January"; break;

case 2: cout<<"February"; break;

case 3: cout<<"March"; break;

case 4: cout<<"April"; break;

case 5: cout<<"May"; break;

case 6: cout<<"June"; break;

case 7: cout<<"July"; break;

case 8: cout<<"August"; break;

case 9: cout<<"September"; break;

case 10: cout<<"October"; break;

case 11: cout<<"November"; break;

case 12: cout<<"December"; break;

default:

cout<<"Nhap sai thang";

}

return 0;

}

Bai 4

#include <iostream>

using namespace std;

int main()

{

int nam;

cout<<"Nhap vao nam\n";

cin>>nam;

if (((nam % 4 ==0) && (nam % 100 !=0)) || (nam % 400 ==0)){

cout<<"Nam nhuan"<<endl;

}

else{

cout<<"Nam khong nhuan"<<endl;

}

return 0;

}

Bai 5

#include <iostream>

using namespace std;

int main()

{

int chon;

float dai, rong, r, c, s, canh;

cout << "MENU\n";

cout << "1. Hinh vuong\n";

cout << "2. Hinh chu nhat\n";

cout << "3. Hinh tron\n";

cout << "Nhap lua chon cua ban:\n";

cin >> chon;

switch (chon)

{

case 1:

cout << "Nhap chieu dai canh:\n";

cin >> canh;

c = 4 \* canh;

s = canh \* canh;

cout << "Chu vi hinh vuong: " << c << endl;

cout << "Dien tich hinh vuong: " << s << endl;

break;

case 2:

cout << "Nhap chieu dai va chieu rong:\n";

cin >> dai >> rong;

c = 2 \* (dai + rong);

s = dai \* rong;

cout << "Chu vi hinh chu nhat: " << c << endl;

cout << "Dien tich hinh chu nhat: " << s << endl;

break;

case 3:

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

cin >> r;

c = 2 \* 3.14 \* r;

s = 3.14 \* r \* r;

cout << "Chu vi hinh tron: " << c << endl;

cout << "Dien tich hinh tron: " << s << endl;

break;

default:

cout << "Lua chon khong hop le!";

break;

}

return 0;

}

Bai 6

#include <iostream>

#include <iomanip>

using namespace std;

int main()

{

int chon;

float t , f, c,s ,r;

cout<<"Chon 1 trong 3\n";

cout<<"1.In ra man hinh loi chao\n";

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

cout<<"3.Hinh tron\n";

cin >> chon;

switch (chon)

{

case 1:

cout<<"Xin chao cac ban"<<endl;

break;

case 2:

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

cin>>t;

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

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

break;

case 3:

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

cin >> r;

c = 2 \* 3.14 \* r;

s = 3.14 \* r \* r;

cout << "Chu vi hinh tron: " << c << endl;

cout << "Dien tich hinh tron: " << s << endl;

break;

}

return 0;

}

Bai 7 Trùng

Bai 8

1/

#include <iostream>

using namespace std;

int main()

{

int i;

int s = 0;

for(i=1;i<=100;i++)

s = s + i;

cout<<"Tong 1-100 la "<<s<<endl;

return 0;

}

2/

#include <iostream>

using namespace std;

int main()

{

int i,n;

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

cin>>n;

int s = 0;

for(i=1;i<=n;i++)

s = s + i;

cout<<"Tong so nguyen la "<<s<<endl;

return 0;

}

3/

#include <iostream>

using namespace std;

int main()

{

int m,n,i;

cout<<"Nhap vao so nguyen m,n \n";

cin>>m>>n;

for(i=m;i<=n;i++)

if (i%2==0){

cout<<"Cac so chan nam trong m, n\n"<<i<<endl;}

return 0;

}

Bai 9

1/

#include <iostream>

using namespace std;

int main()

{

int i,n;

int s=1;

cout<<"Nhap vao n\n";

cin>>n;

for (i=1;i<=n;i++)

s = s \* i;

cout<<"Tong la "<<s<<endl;

return 0;

}

2/

#include <iostream>

using namespace std;

int main()

{

int i;

int s=0;

for (i=2;i<=20;i=i+2)

s = s + i;

cout<<"Tong la "<<s<<endl;

return 0;

}

3/

#include <iostream>

using namespace std;

int main()

{

int n;

cout<<"Nhap vao n \n";

cin>>n;

int i;

int s=0;

for (i=1; i<=n; i++)

s = s + i\*(i+1);

cout<<"Tong la "<<s<<endl;

return 0;

}

4/

#include <iostream>

using namespace std;

int main()

{

int n;

cout<<"Nhap vao n \n";

cin>>n;

float i;

float s=0;

for (i=1; i<=n; i++)

s = s + 1/(i\*(i+1)\*(i+2));

cout<<"Tong la "<<s<<endl;

return 0;

}

Bai 11 Trùng

Bài 12

#include <iostream>

using namespace std;

int main()

{

int somon;

int i;

cout << "Nhap so luong mon hoc:\n";

cin >> somon;

float tongdtb = 0, tongtinchi = 0;

for(i=1;i <= somon;i++){

float dtb;

int tinchi;

cout << "Nhap diem trung binh mon hoc\n" << i << ": ";

cin >> dtb;

cout << "Nhap so tin chi mon hoc\n" << i << ": ";

cin >> tinchi;

tongdtb = tongdtb + dtb \* tinchi;

tongtinchi = tongtinchi + tinchi;

}

float DTBC = tongdtb / tongtinchi;

cout << "Diem trung binh chung HK1 "<<DTBC<<endl;

if (DTBC>=8.5){

cout<<"Diem he so 4: ";

cout<<"4.0\n";

cout<<"Diem chu: ";

cout<<"A\n";}

else

if (DTBC>=7.0){

cout<<"Diem he so 4: ";

cout<<"3.0\n";

cout<<"Diem chu: ";

cout<<"B\n";}

else

if (DTBC>=5.5){

cout<<"Diem he so 4: ";

cout<<"2.0\n";

cout<<"Diem chu: ";

cout<<"C\n";}

else

if (DTBC>=4.0){

cout<<"Diem he so 4: ";

cout<<"1.0\n";

cout<<"Diem chu: ";

cout<<"D\n";}

else{

cout<<"Diem he so 4: ";

cout<<"0.0\n";

cout<<"Diem chu: ";

cout<<"F\n";}

return 0;

}

Bai 13

#include <iostream>

using namespace std;

int main()

{

int n;

cout << "Nhap vao mot so bat ky tu 0 den 9: ";

cin >> n;

switch (n)

{

case 0:

cout << "So 0 doc la: Khong";

break;

case 1:

cout << "So 1 doc la: Mot";

break;

case 2:

cout << "So 2 doc la: Hai";

break;

case 3:

cout << "So 3 doc la: Ba";

break;

case 4:

cout << "So 4 doc la: Bon";

break;

case 5:

cout << "So 5 doc la: Nam";

break;

case 6:

cout << "So 6 doc la: Sau";

break;

case 7:

cout << "So 7 doc la: Bay";

break;

case 8:

cout << "So 8 doc la: Tam";

break;

case 9:

cout << "So 9 doc la: Chin";

break;

default:

cout << "So vua nhap khong hop le!";

break;

}

return 0;

}

Bai 14

#include <iostream>

using namespace std;

int main()

{

char hex;

int dec;

cout << "Nhap ky so he thap luc phan: \n";

cin >> hex;

if (hex >= 0 && hex <= 9) {

cout<<hex<<endl;

return 0;

}

else if (hex >= 'A' && hex <= 'F') {

dec = hex - 'A' + 10;

}

else {

cout << "He thap luc phan khong dung ky so nay\n";

return 0;

}

cout << "Gia tri thap phan tuong ung: \n" << dec << endl;

return 0;

}

Bai 15

#include <iostream>

using namespace std;

int main()

{

int n;

cout<<"Nhap n>=1\n";

cin>>n;

float i;

float s = 0;

for(i=1;i<=n;i++)

s = s + (1/i);

cout<<"Tong la: "<<s<<endl;

return 0;

}

Bai 16

#include <iostream>

using namespace std;

int main()

{

int n;

cout<<"Nhap n>=1\n";

cin>>n;

float i;

float s = 0;

float p;

for(i=1;i<=n;i++)

s = s + (1/(2\*i+1));

p = 1 + s;

cout<<"Tong la: "<<p<<endl;

return 0;

}

Bai 17

#include <iostream>

using namespace std;

int main()

{

int n;

cout<<"Nhap n>=1\n";

cin>>n;

float i;

float s = 0;

float p;

for(i=1;i<=n;i++)

s = s + 1/(i\*(i+1));

cout<<"Tong la: "<<s<<endl;

return 0;

}

Bai 18

#include <iostream>

using namespace std;

int main()

{

int n;

cout<<"Nhap n>=1\n";

cin>>n;

float i;

float s = 0;

float p;

for(i=1;i<=n;i++)

s = s + i/(i+1);

cout<<"Tong la: "<<s<<endl;

return 0;

}

Bai 19

#include <iostream>

using namespace std;

int main()

{

int n;

cout<<"Nhap n>=0\n";

cin>>n;

float i;

float s = 0;

float p;

for(i=0;i<=n;i++)

s = s + (2\*i+1)/(2\*i+2);

cout<<"Tong la: "<<s<<endl;

return 0;

}

Bai 20

#include <iostream>

#include <math.h>

using namespace std;

int main()

{

int x,n;

cout<<"Nhap vao x,n";

cin>>x>>n;

int c = pow(x, n);

cout<<"Dap an la: "<<c<<endl;

return 0;

}

Bai 21

#include <iostream>

#include <math.h>

using namespace std;

int main()

{

int x,n,i;

cout<<"Nhap vao x,n\n";

cin>>x>>n;

int s = 0;

for(i=1;i<=n;i++)

s = s + pow(x,i);

cout<<"Dap an la: "<<s<<endl;

return 0;

}

Bai 22

#include <iostream>

#include <math.h>

using namespace std;

int main()

{

int x, n, i, p;

cout << "Nhap vao x,n\n";

cin >> x >> n;

int s = 0;

for (i = 1; i <= n; i++) {

p = pow(-1, i) \* pow(x, i);

s = s + p;

}

cout << "Dap an la: " << s << endl;

return 0; }

Bai 23

1/

#include <iostream>

using namespace std;

int main()

{

int n;

cout<<"Nhap vao n\n";

cin>>n;

int i;

for(i=1;i<=n;i++){

if(i%2==0)

cout<<"So chan tu 1-n la: "<<i<<endl;}

return 0;

}

2/

#include <iostream>

using namespace std;

int main() {

int m, n;

cout << "Nhap vao hai so m, n: ";

cin >> m >> n;

int s;

for (int i = m; i <= n; i++) {

int s = (i / 10) % 10; // Lấy hàng chục

if (s == 2) {

cout << i << " ";

}

}

cout << endl;

return 0;

}

3/

#include <iostream>

using namespace std;

int main() {

int s = 0;

for (int i = 10; i < 100; i++) {

if (i % 2 == 0) {

s = s + i;

}

}

cout << "Tong cac so chan co 2 chu so la: " << s << endl;

return 0;

}