Bai 1

#include <iostream>

using namespace std;

int main()

{

int a, b;

cout << "Nhap 2 so nguyen:\n";

cin >> a >> b;

while (a != b)

{

if (a > b) {

a = a - b;

}

else {

b = b - a;

}

}

cout << "UCLN la: " << a << endl;

return 0;

}

Bai 2

#include <iostream>

using namespace std;

int main()

{

int luachon;

do

{

cout << "1.Hello\n";

cout << "2.Vong lap for\n";

cout << "3.Vong lap while\n";

cout << "4.Thoat chuong trinh\n";

cout << "Ban chon chuc nang nao\n";

cin >> luachon;

switch (luachon)

{

case 1: cout << "Hello\n"; break;

case 2: cout << "Vong lap for\n"; break;

case 3: cout << "Vong lap while\n"; break;

case 4: cout << "Thoat chuong trinh\n"; break;

}

} while (luachon != 4);

return 0;

}

Bai 3

#include <iostream>

using namespace std;

int main()

{

int n;

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

cin >> n;

int tong = 0;

while (n > 0)

{

tong = tong + n % 10;

n = n / 10;

}

cout << "Tong cac chu so trong n la: " << tong << endl;

return 0;

}

Bài 4

#include <iostream>

using namespace std;

int main()

{

int n,i=2;

cout<<"Nhap vao mot so nguyen duong\n";

cin>>n;

if (n<2){ \\ko co so 0 va 1

cout<<"Khong phai la so nguyen to"<<endl;

}

else if (n == 2){

cout<<n<<"la so nguyen to"<<endl;

}

else{

while (i < n)

{

if (n % i ==0){

cout<<n<<"Khong phai la so nguyen to"<<endl;

break;

}

i++;

}

if (i == n){

cout<<n<<"la so nguyen to"<<endl;}

}

return 0;

}

Bài 5

#include <iostream>

using namespace std;

int main()

{

int n;

cout<<"Nhap vao n\n";

cin>>n;

while (n>0)

{

if (n%2 == 0){

cout<<n % 10<<" la so chan"<<endl;}

else{

cout<<n % 10<<" ko la so chan"<<endl;}

n = n / 10;

}

return 0;

}

Bai 6

#include<iostream>

using namespace std;

int main()

{

int a,b;

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

cin>>a>>b;

int tong = a \* b;

while (a != b)

{

if (a > b){

a = a - b;}

else{

b = b - a;}

}

cout<<"UCLN la: "<<a<<endl;

cout<<"BCNN la: "<<tong / a<<endl;

return 0;

}

Bai 7

#include<iostream>

using namespace std;

int main()

{

int n;

cout<<"Nhap vao n\n";

cin>>n;

int s = 0;

int i = 1;

while (i<n)

{

s = s + i;

i++;

}

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

return 0;

}

Bai 8

#include<iostream>

using namespace std;

int main()

{

int n, sum = 0;

do {

cout << "Nhap mot so nguyen (nhap 0 de ket thuc): ";

cin >> n;

sum += n;

} while (n != 0);

cout << "Tong cac so vua nhap la: " << sum << endl;

return 0;

}

Bai 9

#include <iostream>

using namespace std;

int main()

{

    int n, i = 0;

    while (true)

    {

        cout << "Nhap mot so nguyen co 3 chu so khac nhau: ";

        cin >> n;

    if (n < 100 || n > 999)

    {

        break;

    }

        else

        {

            int a = n / 100;

            int b = (n / 10) % 10;

            int c = n % 10;

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

            {

                i++;}

            else{

            break;

            }

        }

    }

    cout<<"So nguyen da nhap la: "<<i<<endl;

    return 0;

}

Bai 12

#include <iostream>

using namespace std;

int main() {

float a, b;

cout << "Nhap vao hai so a va b cua phuong trinh ax + b = 0: " << endl;

cin >> a >> b;

while (a == 0) {

cout << "He so a phai khac 0. Nhap lai gia tri a: " << endl;

cin >> a;

}

float x = -b / a;

cout << "Nghiem cua phuong trinh " << a << "x + " << b << " = 0 la x = " << x << endl;

return 0;

}

Bai 13

#include <iostream>

using namespace std;

int main()

{

int n;

bool sukien = true;

cout << "Nhap vao so nguyen duong n: ";

cin >> n;

while (n > 0)

{

int a = n % 10;

if (a % 2 != 0) {

sukien = false;

break;

}

n = n / 10;

}

if (sukien) {

cout << "Cac chu so cua ban toan la chu so chan.\n";

} else {

cout << "Cac chu so cua ban khong toan la chu so chan.\n";

}

return 0;

}

Bai 14

#include <iostream>

using namespace std;

int main()

{

int n;

bool sukien = true;

cout << "Nhap vao so nguyen duong n: ";

cin >> n;

while (n > 0)

{

int a = n % 10;

if (a % 2 == 0) {

sukien = false;

break;

}

n = n / 10;

}

if (sukien) {

cout << "Cac chu so cua ban toan la chu so le.\n";

} else {

cout << "Cac chu so cua ban khong toan la chu so le.\n";

}

return 0;

}

Bai 15

#include <iostream>

using namespace std;

int main()

{

int n, s = 10;

cout << "Nhap vao so nguyen duong n: ";

cin >> n;

while (n > 0)

{

int a = n % 10;

n = n / 10;

if (a >= s)//s = 10 vì a sẽ ko lớn hơn 10

{

cout << "Cac chu so khong tang dan tu trai qua phai." << endl;

return 0;

}

s = a;//s sẽ lưu a ở dòng 10

}

cout << "Cac chu so tang dan tu trai qua phai." << endl;

return 0;

}

Bai 16

#include <iostream>

using namespace std;

int main()

{

int n, s = 0;

cout << "Nhap vao so nguyen duong n: ";

cin >> n;

while (n > 0)

{

int a = n % 10;

n = n / 10;

if (a < s)

{

cout << "Cac chu so khong giam dan tu trai qua phai." << endl;

return 0;

}

s = a; // s sẽ lưu a ở dòng 10

}

cout << "Cac chu so giam dan tu trai qua phai." << endl;

return 0;

}