ឈុន ណាថារិទ្ធ Chhun Natharith

1 :

- Control statement : សំដៅលើការកំណត់លក្ខខណ្ឌលើStatementណាមួយអោយដំណើរការតាមលក្ខខណ្ឌ True or false .
- Loop statement : សំដៅលើការដំណើរការលើការងារអ្វីមួយរំលងុំដដែលរហូតជួបCondition មិនពិតទើបឈប់ដំណើរការ។ Loop ដំណើរការបានតាម ៣វិធីគឺInitialize,Condition ,step .
- Function : វិធីសាស្ត្របំបែក ការសរសេរCode ជាចំណែកតូចតូច ហើយងាយស្រួលយល់និងងាយកែឬហៅមកប្រើតាមក្រោយ។

2:

```c
#include<stdio.h>
int main(){
    int a[100];
    int n,i;
    printf("Input N : ");scanf("%d",&n);
    for(i=0;i<n;i++){
    printf("Input Array: ");scanf("%d",&a[i]);
    }
    for(i=0;i<n;i++){
        printf(" Array has %d\n",a[i]);
    }
}
```

4: OPP មកពីពាក្យObject Oriented program ហើយគេប្រើវាដើម្បីសរសេរទិន្នន័យDatatype ផ្ទុកក្នុងClass តែមួយដើម្បីងាយស្រួលហៅមកប្រើ។OOP has 3 concept :

-Abstruct ,-Interitance,Polymorphim

ផ្នែកទីពីរ

1:

```
#include<iostream>
using namespace std;
class Person{
    private:
        string id;
        string name;
        string dob;
    public:
        Person(){
            id   = "unknown";
            name = "unknown";
            dob  = "unknown";
        }
        Person(string ID,string Name,string DOB){
            ID = id;
            Name = name;
            DOB = dob;
        }
        void Input(){
            cout<<"Input ID   : ";cin>>id;
            cout<<"Input Name : ";cin>>name;
            cout<<"Input DOB  : ";cin>>dob;
        }
        void Output(){
            cout<<"\t"<<id<<"\t"<<name<<"\t"<<dob<<endl;
        }
        void Header(){
            cout<<"\tID\tName\tDate of Birth"<<endl;
        }
};
```

```
class Student : public Person{
    void Input(){
        Person ::Input();
    }
    void Output(){
        Person ::Output();
    }
};
int main(){
    Person obj;
    obj.Input();
    obj.Header();
    obj.Output();
}
```

4:

```
#include<iostream>
using namespace std;
class Person{
    private:
        string id;
        string name;
        string dob;
    public:
        Person(){
            id   = "unknown";
            name = "unknown";
            dob  = "unknown";
        }
        Person(string ID,string Name,string DOB){
            ID = id;
            Name = name;
            DOB = dob;
        }
        void Input(){
            cout<<"Input ID   : ";cin>>id;
            cout<<"Input Name : ";cin>>name;
            cout<<"Input DOB  : ";cin>>dob;
        }
        void Output(){
            cout<<"\t"<<id<<"\t"<<name<<"\t"<<dob<<endl;
        }
        void Header(){
            cout<<"\tID\tName\tDate of Birth"<<endl;
        }
};
```

Read file:

```
int main(){
    Person obj;
    ofstream file;
    file.open("etec.bin",ios::out|ios::binary);
    obj.Input();
    obj.Header();
    obj.Output();
}
```

Write File:

```
int main(){
    Person obj;
    ofstream file;
    file.open("etec.bin",ios::in|ios::binary);
    obj.Input();
    obj.Header();
    obj.Output();
}
```

3:

```
#include<iostream>
using namespace std;
template <typename T>
T Sum(T a,T b){
    return a+b;
    return a-b;
    return a*b;
    return a/b;
    return a%b;
}
int main(){
    int a=1,b=1;
     cout<<"Sum A+B : "<<Sum(a,b)<<endl;
     cout<<"Sum A-B : "<<Sum(a,b)<<endl;
     cout<<"Sum A*B : "<<Sum(a,b)<<endl;
     cout<<"Sum A/B : "<<Sum(a,b)<<endl;
     cout<<"Sum A%B : "<<Sum(a,b)<<endl;
}
```

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