

Inheritance in C++

Elementrix Classes

Inheritance in C++

- ❑ The process of obtaining the data members and methods from one class to another class is known as inheritance. It is one of the fundamental features of object-oriented programming.

- ❑ Important points
 - In the inheritance the class which is give data members and methods is known as base or super or parent class.
 - The class which is taking the data members and methods is known as sub or derived or child class.

Real Life Example of Inheritance in C++

- ❑ The real life example of inheritance is child and parents, all the properties of father are inherited by his son.

Example Program:

```
1 // C++ program to demonstrate inheritance
2
3 #include <iostream>
4 using namespace std;
5
6 // base class
7 class Animal {
8
9     public:
10    void eat() {
11        cout << "I can eat!" << endl;
12    }
13
14    void sleep() {
15        cout << "I can sleep!" << endl;
16    }
17 };
18
```

```
19 // derived class
20 ▾ class Dog : public Animal {
21
22     public:
23 ▾     void bark() {
24         cout << "I can bark! Woof woof!!" << endl;
25     }
26 };
27
28 ▾ int main() {
29     // Create object of the Dog class
30     Dog dog1;
31
32     // Calling members of the base class
33     dog1.eat();
34     dog1.sleep();
35
36     // Calling member of the derived class
37     dog1.bark();
38
39     return 0;
40 }
```

```
x Output
I can eat!
I can sleep!
I can bark! Woof woof!!

Process Finished.
>>> █
```

Here, dog1 (the object of derived class Dog) can access members of the base class Animal. It's because Dog is inherited from Animal.

पढ़िए और पढ़ाइये

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