

C++ this Pointer

In C++ programming, **this** is a keyword that refers to the current instance of the class. There can be 3 main usage of this keyword in C++.

- It can be used **to pass current object as a parameter to another method.**
- It can be used **to refer current class instance variable.**
- It can be used **to declare indexers.**

C++ this Pointer Example

Let's see the example of this keyword in C++ that refers to the fields of current class.

```
#include <iostream>

using namespace std;

class Employee {
    public:
        int id; //data member (also instance variable)
        string name; //data member(also instance variable)
        float salary;
        Employee(int id, string name, float salary)
        {
            this->id = id;
            this->name = name;
            this->salary = salary;
        }
        void display()
        {
            cout<<id<<" "<<name<<" "<<salary<<endl;
        }
};

int main(void) {
    Employee e1 =Employee(101, "Sonoo", 890000); //creating an object of Employee
    Employee e2=Employee(102, "Nakul", 59000); //creating an object of Employee
    e1.display();
    e2.display();
    return 0;
}
```

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Output:

```
101  Sonoo  890000
102  Naku1  59000
```



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