

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();
}
```

```
return 0;
```

```
}
```

Output:

```
101 Sonoo 890000
102 Nakul 59000
```

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