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.
- o It can be used to declare indexers.

C++ this Pointer Example

#include<iostream>

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;
}
Output:
101 Sonoo 890000
102 Nakul 59000
```

```
using namespace std;
class A{
  int a;
  public:
    void setData(int a){
      this->a = a;
    }
    void getData(){
      cout<<"The value of a is "<<a<<endl;
    }
};
int main(){
  Aa;
  a.setData(4);
  a.getData();
  return 0;
}
```