this is a keyword in C++.

this is a local object pointer in every instance member function which contains address of caller object.

***What do you mean local variable?***

***The variables that can be accessed inside the block are called local variables.***

* this is a local variable as it is also a keyword so we don't have to declare it, this is an object pointer, this will hold the address of an object.
* The member functions created inside the class which are being created without the static keyword and performing object specific tasks are called instance member functions.
* There is always an object pointer named **“this”** inside the instance member function.

***main function has “this” pointer?***

***No, because main is not an instance member function.***

***static member function has “this” pointer?***

***No, because static member function is not an instance member function.***

***Will there be “this” in the function named setData() inside the complex class?***

***Yes, because that function is an instance member function.***

***Will there be “this” in the function named showData() inside the complex class?***

***Yes, because that function is an instance member function.***

***Will there be “this” in the function named input() inside the book class?***

***Yes, because that function is an instance member function.***

***Will there be “this” in the function named output() inside the book class?***

***Yes, because that function is an instance member function.***

***Will there be “this” inside the constructor of the complex class?***

***Yes, because constructor is an instance member.***

***Will there be “this” inside the destructor of the complex class?***

***Yes, because destructor is an instance member.***

* ***“this”*** pointer can’t be modified.
* ***“this”*** pointer is used to represent the caller object in the instance member function.
* ***“this”*** pointer resolves the name conflict in the instance member function