http://www.tutorialspoint.com/cplusplus/cpp\_this\_pointer.htm

Every object in C++ has access to its own address through an important pointer called **this** pointer. The **this** pointer is an implicit parameter to all member functions. Therefore, inside a member function, this may be used to refer to the invoking object.

Friend functions do not have a **this** pointer, because friends are not members of a class. Only member functions have a **this** pointer.

Let us try the following example to understand the concept of this pointer:

```
#include <iostream>
using namespace std;
class Box
   public:
      // Constructor definition
      Box (double 1=2.0, double b=2.0, double h=2.0)
         cout <<"Constructor called." << endl;</pre>
         length = 1;
         breadth = b;
         height = h;
      double Volume()
         return length * breadth * height;
      int compare (Box box)
         return this->Volume() > box.Volume();
   private:
      double length; // Length of a box
      double breadth;  // Breadth of a box
double height;  // Height of a box
};
int main (void)
   Box Box1(3.3, 1.2, 1.5); // Declare box1
   Box Box2(8.5, 6.0, 2.0); // Declare box2
   if (Box1.compare (Box2))
      cout << "Box2 is smaller than Box1" <<endl;</pre>
   }
   else
      cout << "Box2 is equal to or larger than Box1" <<endl;</pre>
   return 0;
```

When the above code is compiled and executed, it produces the following result:

```
Constructor called.
Constructor called.
Box2 is equal to or larger than Box1
```