Interview Questions

1. **What is this pointer?**
   this pointer is accessible only inside the member functions of a class and points to the object which has called this member function.
2. **When is it necessary to use this pointer?**

   Suppose we have two local variables with the same name as the data members' names. Suppose you want to assign the local variable value to the data members. In that case, you won't be able to do until unless you use this pointer because the compiler won't know that you are referring to the object's data members unless you use this pointer.

3. **What is similar between deep copy and shallow copy?**

   Both are used to copy data between objects.

4. **What is the difference between deep copy and shallow copy?**

Shallow Copy	Deep Copy
Shallow Copy stores the references of objects to the original memory address.	Deep copy stores copies of the object's value.
Shallow Copy reflects changes made to the new/copied object in the original object.	Deep copy doesn't reflect changes made to the new/copied object in the original object.
Shallow Copy stores the copy of the original object and points the references to the objects.	Deep copy stores the copy of the original object and recursively copies the objects as well.
Shallow copy is faster.	Deep copy is comparatively slower.