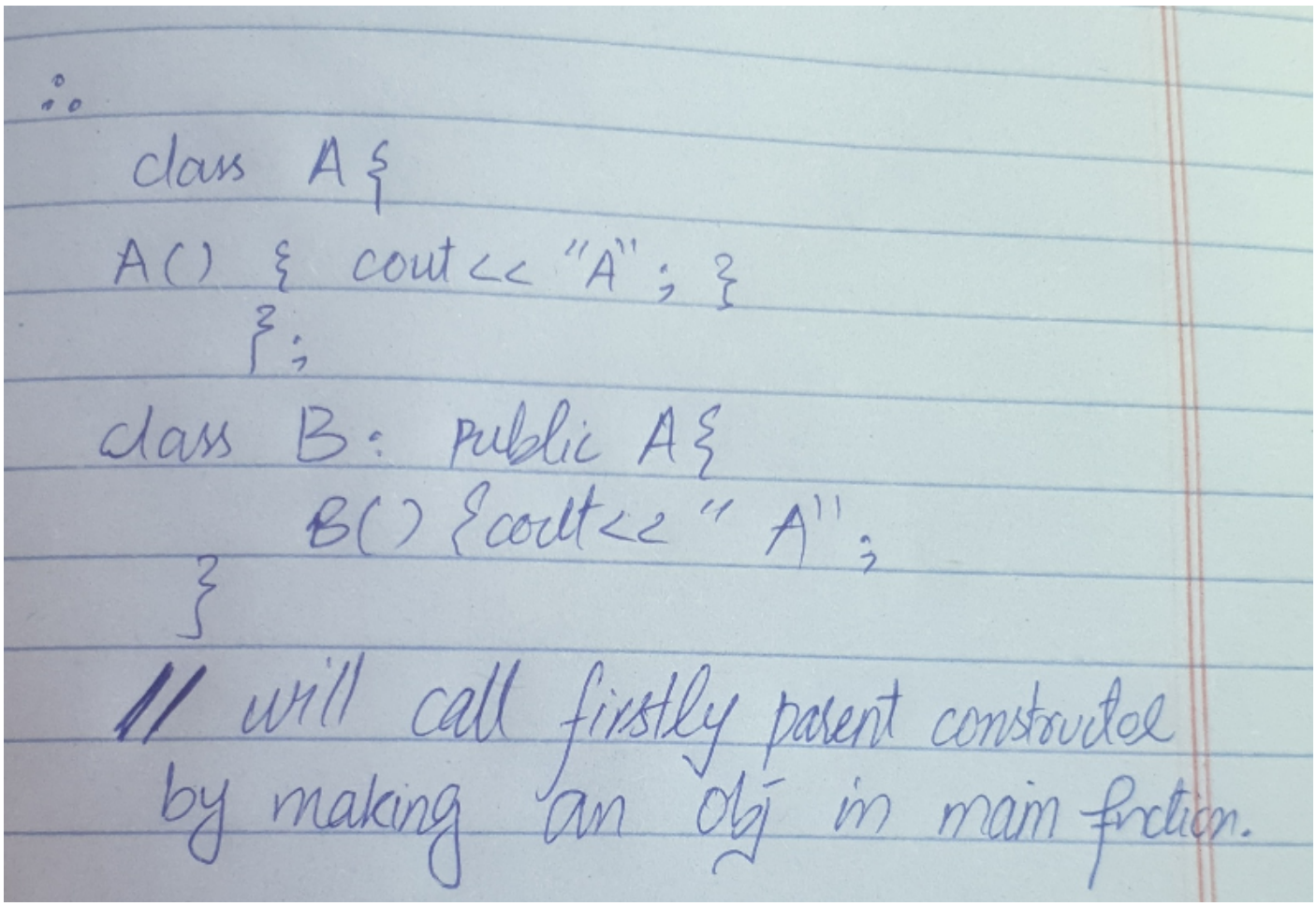
Multiple Inheritance (Diamond Problem)

Note:



Multiple Inheritance(Virtual Base Class):

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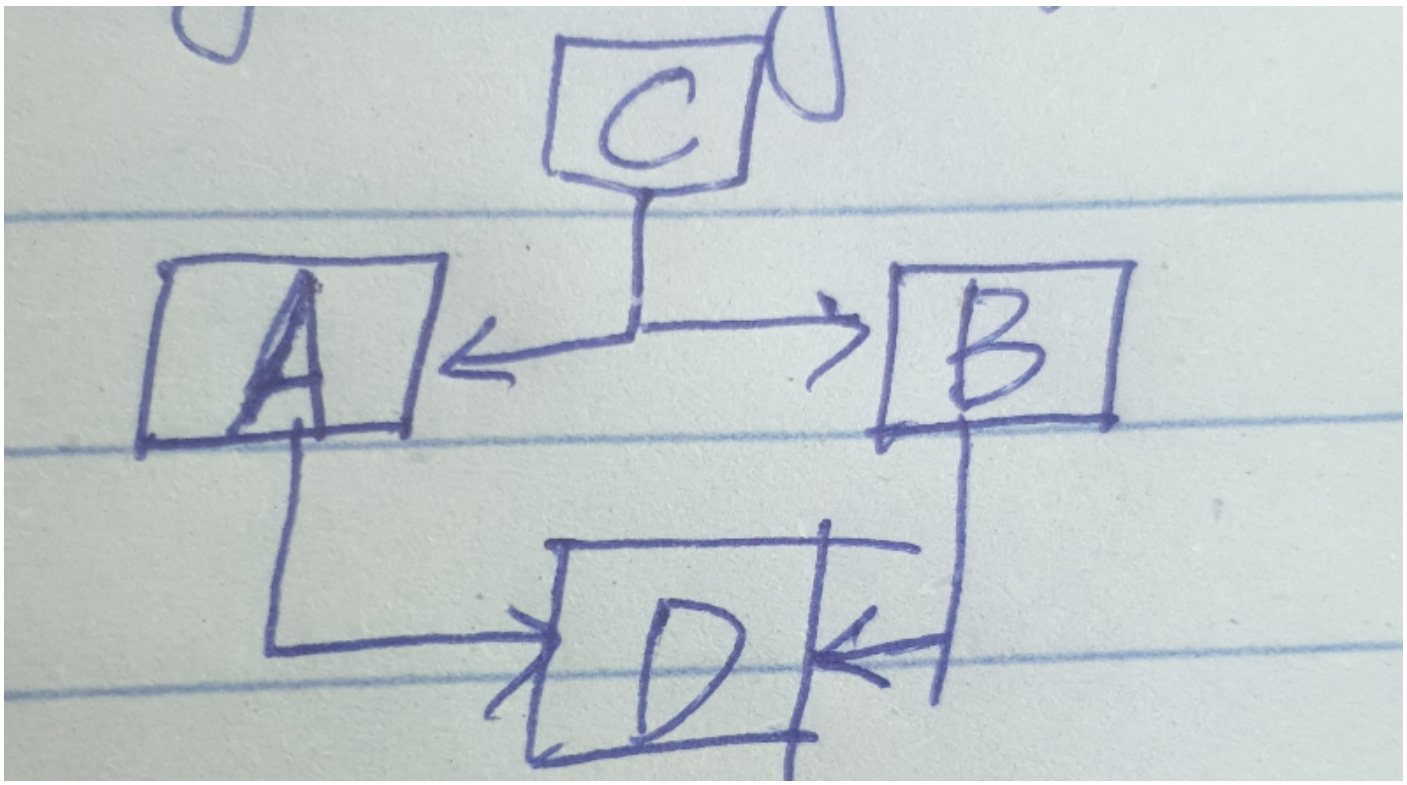
Diamond Problem

```
class A { }; A(){ cout<< "A"; }
class B{ }; B(){ cout<< "B"; }
class C: Public A, public B{
      C(){ cout<< "C";
};
int main()
   {   C obj; // call all Constructors of A, B, C
   }
```

- If there are more than two classes,in which the following flow will:



- ^-- Here,The Functions of class C will inherited in class A and B, then again class D is inherited from two classes A and B.If we make constructors of every class,then the constructor of class C will call two times.To avoid this we use virtual Keyword.Known as Vistual Base class.

Diamond Problem:

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