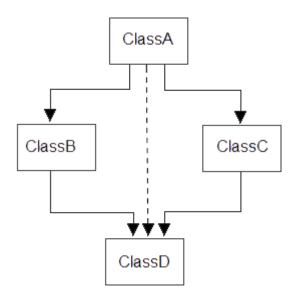
```
#include <iostream>
using namespace std;
class Base //base class
{
public:
void show()
cout << "Base\n";</pre>
};
class Derv1: public Base
public:
void show()
cout << "Derv1\n";</pre>
};
class Derv2: public Base //derived class 2
public:
void show()
cout << "Derv2\n";</pre>
};
int main()
Derv1 dv1; //object of derived class 1
Derv2 dv2; //object of derived class 2
Base* ptr; //pointer to base class
ptr = &dv1; //put address of dv1 in pointer
ptr->show(); //execute show()
ptr = &dv2;  //put address of dv2 in pointer
ptr->show();  //execute show()
return 0;
}
```

Virtual base class



#include<iostream> using namespace std;

```
class ClassA
{
    public:
    int a;
};

class ClassB : public ClassA
{
    public:
    int b;
};

class ClassC : public ClassA
{
    public:
    int c;
};
```

```
class ClassD: public ClassB, public ClassC
      public:
      int d;
   };
   main()
               ClassD obj;
          //obj.a = 10;
                                 //Statement 1, Error occur
               //obj.a = 100;
                                      //Statement 2, Error occur
               obj.ClassB::a = 10;
                                       //Statement 3
               obj.ClassC::a = 100;
                                       //Statement 4
               obj.b = 20;
               obj.c = 30;
               obj.d = 40;
               cout<< "\n A from ClassB : "<< obj.ClassB::a;
               cout<< "\n A from ClassC : "<< obj.ClassC::a;
               cout<< ''\n B : ''<< obj.b;
               cout<< "\n C : "<< obj.c;
               cout<< ''\n D : ''<< obj.d;
     }
Output:
      A from ClassB: 10
      A from ClassC: 100
      B: 20
      C:30
      D:40
```

To avoid