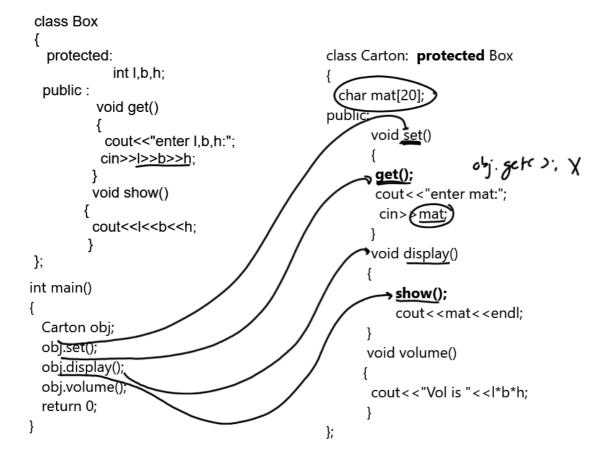
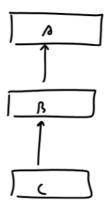
- 1. All the **public** members of the base calss become **protected** members of the derived class . That is they can be accessed from the member functions of the derived class but not from outside the derived class.
- 2. All the **protected** members of the base calss become **protected** members of the derived class . That is they can be accessed from the member functions of the derived class but not from outside the derived class.
- 3. All the **private** members of the base class remain **private** to their own class and thus can neither be accessed by the object nor by the member functions of the derived class.



- 1. All the **public** members of the base calss become **private** members of the derived class . That is they can be accessed from the member functions of the derived class but not from outside the derived class.
- 2. All the **protected** members of the base calss become **private** members of the derived class . That is they can be accessed from the member functions of the derived class but not from outside the derived class.
- 3. All the **private** members of the base class remain **private** to their own class and thus can neither be accessed by the object nor by the member functions of the derived class.

```
protected:
                                                class Carton: private Box
             int I,b,h;
  public:
                                                  char mat[20];
          void get()
                                                public:
                                                       void set()
            cout<<"enter I,b,h:";
           cin>>l>>b>>h;
                                                        get()
          void show()
                                                        cout < < "enter mat:";
                                                        cin> mat;
          cout<<l<b<<h;
                                                       void display()
};
int main()
                                                           show();
                                                           cout < < mat < < endl;
 Carton obj;
  obj.set();
                                                      void volume()
  obj.display();
  obj.volume();
                                                       cout < < "Vol is " < < l*b*h;
  return 0;
}
                                                };
```

class Box



```
class DiffNum: protected
                               class AddNum. public Num
class Num
                                                                 AddNum
  protected:
                                                                 {
                                           int c;
            int a,b;
                                                                    int d;
                                public:
 public:
                                                                  public:
         void get()
                                         void set()
                                                                           void accept()
                                                                           {
          cout<<"enter 2 int:";
                                         get();
                                                                           set();
          cin>>a>>b;
                                         void add()
         void show()
                                                                           void diff()
                                                                           { all();
         cout<<a<<","<<b;
                                                                             \overline{d=a-b};
};
                                       void display()
                                                                         void print()
int main()
                                        show();
  DiffNum obj;
                                                                          display();
                                        cout<<"Sum is "<<c;
  obj.accept();
                                                                          cout<<"Diff is "<<d;
  o<del>bj add();</del>
                                                                         }
  obj.diff();
                               };
                                                                 };
  obj.print();/
  return 0;
}
```