

↳ Inheritance → Capability of a class to derive

properties from another class.

↳ child  
[Derived Class] → class which inherits the property.

↳ parent  
[Base Class] → class from which properties will be inherited

public , protected , private

↳ public

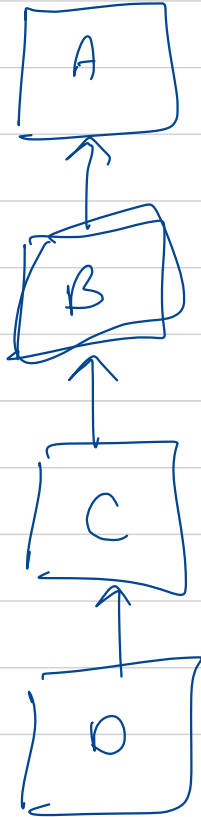
public inheritance → makes public members of the base class, public in the derived class. and protected members of the base class remain protected in derived class.

Default behaviour

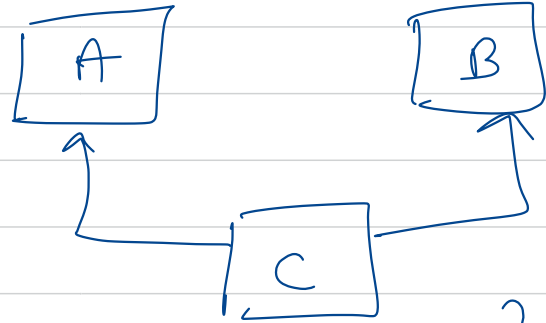
protected inheritance → makes public and protected members of base class protected in derived class.

private inheritance → makes public and protected members of base class private in derived class.

## Based on Structure



multiple  
inheritance



multiple  
inheritance

padding

class size



compiler used

long; → 8

int i;  
int j;  
char c;

1 / 8  
4 / 8  
1 x 4 / 8 → [9 byte]

padding

1 + [3] → wasted / holes  
padding