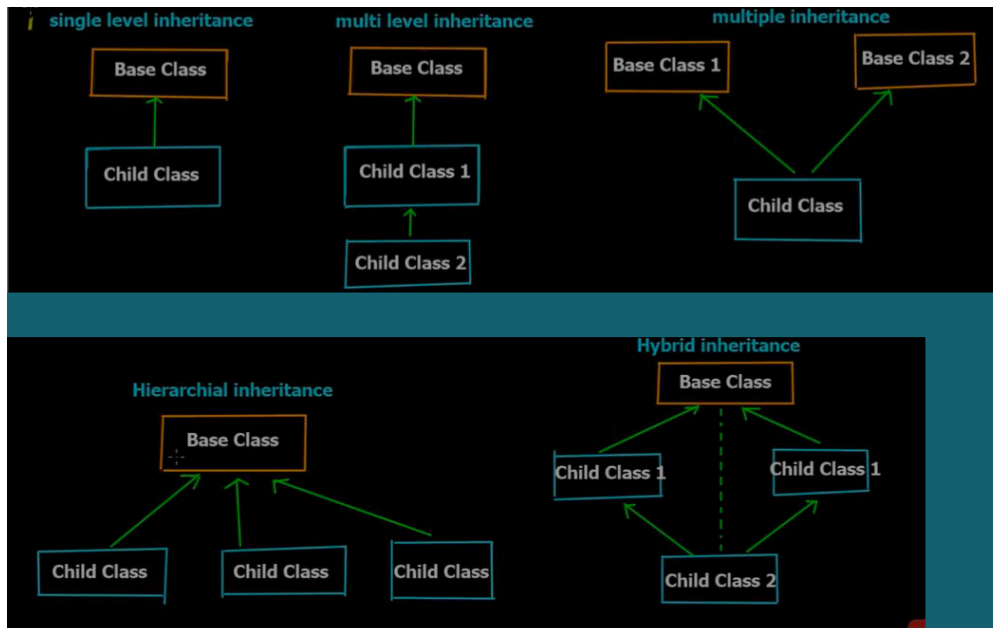# 3 - Inheritance

The mechanism of deriving a new class from an old class written class in known as inheritance.
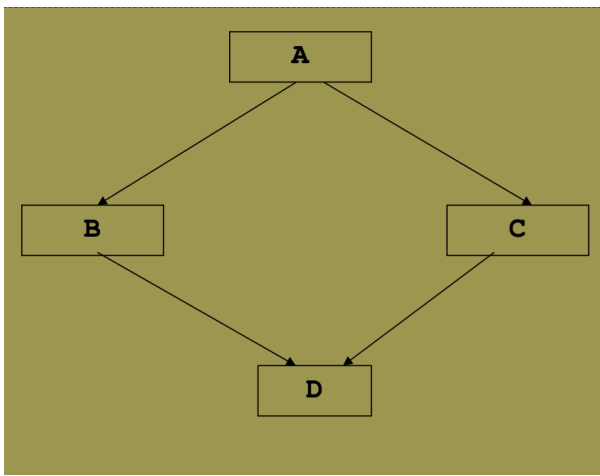
- Public
- Protected
- Private

Type of Inheritance

- Single Level Inheritance
- Multi Level Inheritance
- Multiple Inheritance
- Hierarchal Inheritance

Virtual Function

When a class inherits from two parent classes that both come from the same base class, an ambiguity occurs.

```
cout << B::x;
cout << C::x;
```

Another solution is to use **virtual** keyword when parent class is created.