## Inheritance

It allows create a new class (duied)

existing class (base)

class Animal &

eat()

private / protected

11 bank ()

Dog Gask ()

4 Inheritance is an les a relationship We can only use Entrentance only if an is-a relationship is present blu two classes.

→ A car is a vehicle -> A surgeron is a doctor.

C++ protected members

En accessible outside of protected members e are However, they can be accussed by derived classes & friend functions.

## Access modes

- public -> members of bare class are inherited by duried class just as truy are.
- private -> all menters of base class becomes private menthers in deemed class
- protected public members of base class be come protected members in derived class.

## C++ function overriding

If same function is defined in both the derived class and the base class, If we call tens function, using the object of derived class, the function of derived class exe cuted.

> class Base ? public:
> void print() ?

class Derived: public Base & public: vood print () &

int main () { Derived derived 1; dervied l. print ()s

Base 61; be parally