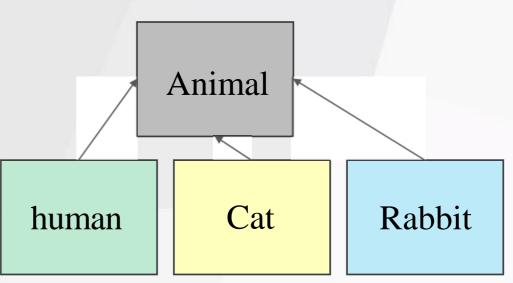
Hierarchies

- parent class (superclass)
- •child class (subclass)
- inherits all attributes and behaviors of parent class
 - add more info/attributes
 - add more behavior/methods
 - **override** behavior



Inheritance: Parent Class

```
class Animal:
    def init (self, age):
        self.age = age
        self.name = None
    def get age(self):
        return self.age
    def get name (self):
        return self.name
    def set age(self, newage):
        self.age = newage
    def set name (self, newname):
        self.name = newname
    def str (self):
        return "animal:"+str(self.name)+":"+str(self.age)
```

Inheritance: Subclass

```
class Cat(Animal):
Cat inherits all attributes of Animal:
Attributes: age, name
Method:
__int__()
get_age(),
get_name()
set_age(),
set_name()
__str__()
```

Inheritance: Subclass

Call the methods from its parent

```
x=Cat(3,"brown")
print(x.age, x.color)
```