- •add new function with speak()
 - Objects of Class Cat can be called with new methods
 - Objects of Animal throws error if called with Cat's new method

```
x=Cat(3)
x.set_name("Jonnie")
x.speak()
print(x)
y=Animal(3)
y.speak()
```

• Subclass can override the methods inherited from superclass, then objects of subclass call the overrided methods

- Subclass can have methods with same name as superclass
- For an instance of a class, look for a method name in **current** class definition
- If not found, look for method name **up the hierarchy** (in parent, then grandparent, and so on)

miao

cat:Jonnie:3

```
class Cat(Animal):
Add new functions def speak (self):
via speak method
                 print("meow")
Overrides_str__ def __str__ (self):
                 return "cat:"+str(self.name) +":"+str(self.age)
          x=Cat(3)
          x.set name("Jonnie")
          x.speak()
          print(x)
```