**class** Thing():

**pass**

print(Thing)

<class '\_\_main\_\_.Thing'>

**class** example(Thing):

**pass**

print(example)

<class '\_\_main\_\_.example'>

*# 6.2*

**class** Thing2():

letters **=** 'abc'

Thing2**.**letters

'abc'

*# 6.3*

**class** Thing3():

**def** \_\_init\_\_(self,word):

self**.**word **=** word

**def** letters(self):

print(self**.**word)

Thing3('xyz')**.**letters()

xyz

*#6.4*

**class** Element():

**def** \_\_init\_\_(self ,name,symbol,number):

self**.**name **=** name

self**.**symbol **=** symbol

self**.**number **=** number

**def** dump(self):

print('name=%s, symbol=%s, number=%s'**%** (self**.**name, self**.**symbol, self**.**number) )

a **=**Element('Hydrogen','H',1)

a**.**name

'Hydrogen'

*# 6.5*

a **=** {'name':'hydrogen', 'symbol':'H', 'number':1}

*#hydrogen = Element(a['name'], a['symbol'],a['number'])*

hydrogen **=** Element(**\*\***a)

*# 6.6*

**class** Element():

**def** \_\_init\_\_(self ,name,symbol,number):

self**.**name **=** name

self**.**symbol **=** symbol

self**.**number **=** number

**def** dump(self):

print('name=%s, symbol=%s, number=%s'**%** (self**.**name, self**.**symbol, self**.**number) )

hydrogen **=** Element(**\*\***a)

hydrogen**.**dump()

name=hydrogen, symbol=H, number=1

*# 6.7*

**class** Element():

**def** \_\_init\_\_(self ,name,symbol,number):

self**.**name **=** name

self**.**symbol **=** symbol

self**.**number **=** number

**def** \_\_str\_\_(self):

**return** ('name=%s, symbol=%s, number=%s'**%** (self**.**name, self**.**symbol, self**.**number) )

hydrogen **=** Element(**\*\***a)

print(hydrogen)

name=hydrogen, symbol=H, number=1

*# 6.8*

**class** Element():

**def** \_\_init\_\_(self ,name,symbol,number):

self**.**\_\_name **=** name

self**.**\_\_symbol **=** symbol

self**.**\_\_number **=** number

@property

**def** name(self):

**return** (self**.**\_\_name)

@property

**def** symbol(self):

**return** (self**.**\_\_symbol)

@property

**def** number(self):

**return** (self**.**\_\_number)

hydrogen **=** Element(**\*\***a)

hydrogen**.**name

'hydrogen'

*# 6.9*

**class** Bear():

**def** eat():

print('berries')

**class** Rabbit():

**def** eat():

print('clover')

**class** Octothorpe():

**def** eat():

print('campers')

Bear**.**eat()

berries

Rabbit**.**eat()

clover

Octothorpe**.**eat()

campers

*# 6.10*

**class** Laser:

**def** does(self):

**return**('disitegrate')

**class** Claw:

**def** does(self):

**return**('crush')

**class** SmartPhone:

**def** does(self):

**return**('ring')

**class** Robot:

**def** \_\_init\_\_(self):

self**.**laser **=** Laser()

self**.**claw **=** Claw()

self**.**smartphone **=** SmartPhone()

**def** does(self):

**return** ('Laser is %s, Claw is %s, SmartPhone is %s' **%** (self**.**laser**.**does(),self**.**claw**.**does(),self**.**smartphone**.**does()))

r **=** Robot()

print(r**.**does())

Laser is disitegrate, Claw is crush, SmartPhone is ring