Constructors Method in Class

- Class functions that begins and ends with double underscore (__) are called special functions
- **__init__()** function: this special function gets called whenever a new object of that class is instantiated.
- We normally use it to initialize all the variables (data attributes) of the object.

单选题 1分

设置

What will be the output of the following Python code?

```
class change:
    def __init__(self, x, y, z):
        self.a = x + y + z

x = change(1,2,3)
print(x.a)
```

A 6

B 7

C 8

D 4

提交

主观题 10分

设置

```
class Complex:
    def __init__(self, realpart, imagpart):
        self.r = realpart
        self.i = imagpart

x = Complex(5.0, -3.5)
print(x.r,x.i)
```

正常使用主观题需2.0以上版本雨课堂

作答

Constructors Method in Class

- We can modify attributes of objects after initialization.

```
class Animal(object):

    def __init__(self, age, name):
        self.age = age
        self.name = name

x= Animal(3,"Debi")
x.age=4
x.name="Gigi"
print(x.age,x.name)
```

Constructors Method in Class

- Python even **allows to create data attributes** for an instance from outside class definition, but it's **not good style** to do this

```
class Complex:
      def __init__(self, realpart, imagpart):
            self.r = realpart
            self.i = imagpart

x = Complex(3.0, -4.5)
x.r_squared = x.r**2
x.r = 4
print(x.r, x.r_squared)
```

```
4,9
```