Class and Module

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1. Class and Object

An object combines variables and functions into a single entity. Objects get their variables and functions from classes. Classes are essentially templates for creating your objects. You can think of an object as a single data structure that contains data as well as functions. Functions of objects are called methods.

a. Define a Class

b. Class variable

```
Class Calculator:
    current=0

Def add(self,amount):
    self.current=self.current+amount

Def get_current(self):
    Return self.current

my_cal=Calculator()
my_cal.add(123)
print(my_cal.current)
```

2. Module and Packages

Modules in Python are simply Python files with the .py extension containing Python definitions and statements. Modules can be handy when you want to use your function in a number of programs without copying its definition into each program. Modules are imported from other modules using the **import** keyword and the file name without an extension. The first time a module is loaded into a running Python script, it is initialized by executing the code in the module once.

- a. Import your module
 - i. Define a function in moudle my_module.py
 Def hello_world(name):
 print("Hello,World!Mynameis%s"%name)
 - ii. In a nother py file, import and use your module
 Import my_module
 my_module.hello_world("wei")
- b. Import buildin module,

There are lot of build modules: https://docs.python.org/3/library/

```
Import datetime
print(datetime.date.today())
```