

Python Programming

모듈



권기웅



1. 모듈이란

1.1 모듈이란

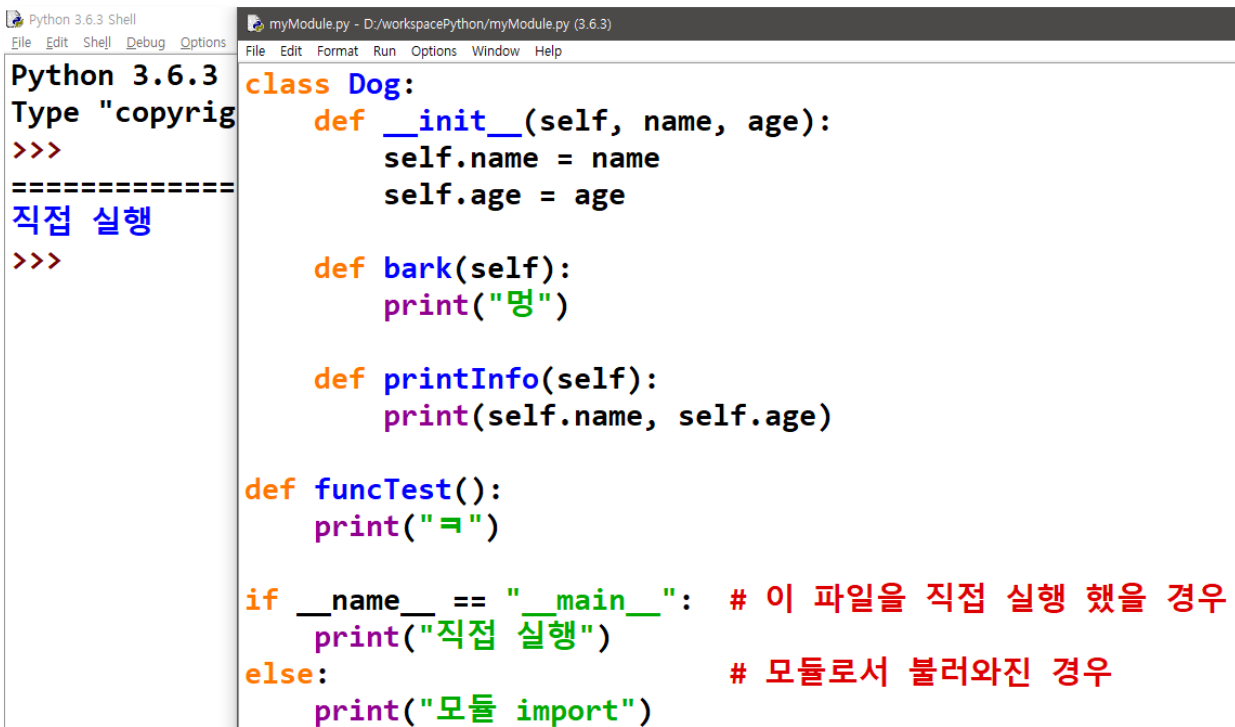
여러 코드를 한데 묶어놓고 다른 곳 에서 재사용할 수 있게 하는 형태

객체지향프로그래밍의 재사용성 증가를 위해 많이 사용

2. 모듈 만들기

2.1 모듈 만들기

2.1.1 myModule.py



The screenshot shows a Python 3.6.3 Shell on the left and a file editor for myModule.py on the right. The shell displays the prompt 'Python 3.6.3 Type "copyright" >>>' followed by a separator line '======' and the text '직접 실행' (Direct Execution) with another prompt '>>>'. The file editor shows the following code:

```
class Dog:
    def __init__(self, name, age):
        self.name = name
        self.age = age

    def bark(self):
        print("멍")

    def printInfo(self):
        print(self.name, self.age)

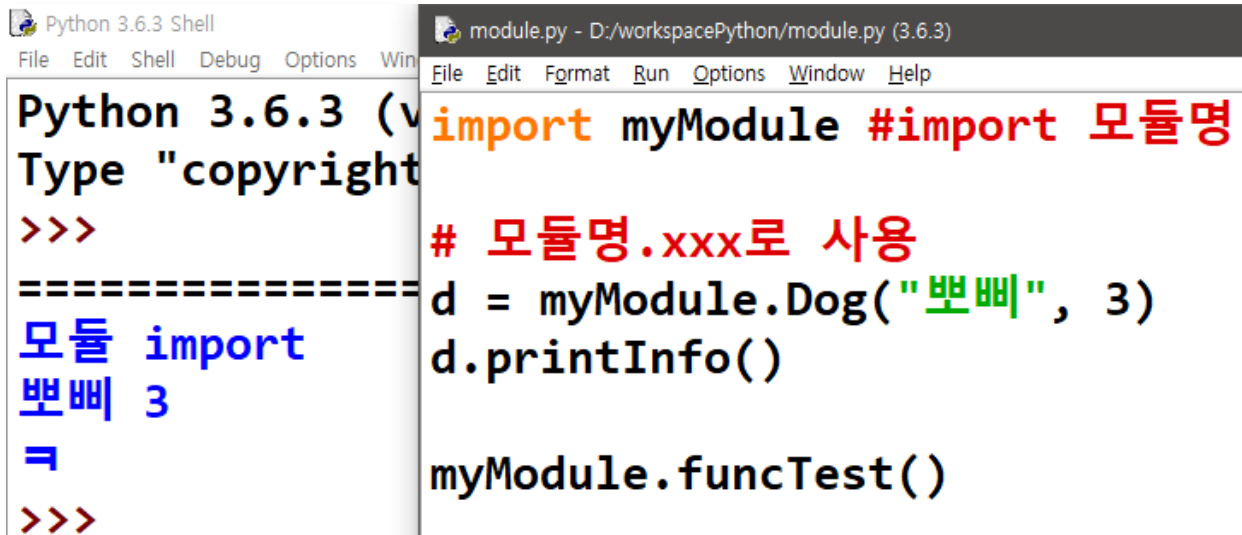
def funcTest():
    print("ㅋ")

if __name__ == "__main__": # 이 파일을 직접 실행 했을 경우
    print("직접 실행")
else: # 모듈로서 불러와진 경우
    print("모듈 import")
```



3. 모듈 사용

3.1 import



The screenshot shows two windows. The left window is the 'Python 3.6.3 Shell' with the following text:


```
Python 3.6.3 (v3.6.3:2444712, Dec 18 2017, 17:06:08)
Type "copyright"
>>>
=====
모듈 import
뽀빠 3
=
>>>
```

The right window is 'module.py - D:/workspacePython/module.py (3.6.3)' with the following code:

```
import myModule #import 모듈명
# 모듈명.xxx로 사용
d = myModule.Dog("뽀빠", 3)
d.printInfo()

myModule.funcTest()
```

3.2 모듈명 줄여서 쓰기



The screenshot shows two windows. The left window is the 'Python 3.6.3 Shell' with the following text:

```
Python 3.6.3 (v3.6.3:2444712, Dec 18 2017, 17:06:08)
Type "copyright"
>>>
=====
모듈 import
뽀빠 3
=
>>>
```

The right window is 'module.py - D:/workspacePython/module.py (3.6.3)' with the following code:

```
import myModule as mm #import 모듈명 as 줄이름
# 줄이름.xxx로 사용
d = mm.Dog("뽀빠", 3)
d.printInfo()

mm.funcTest()
```



3.3 특정 기능만 가져오기

<pre>Python 3.6.3 Shell File Edit Shell Debug Options Window Help Python 3.6.3 (v3.6.3:244c784e, Oct 8 2017) Type "copyright" and "credits()" for more >>> ===== 모듈 import 뽀삐 3 >>></pre>	<pre>module.py - D:/workspacePython/module.py (3.6.3) File Edit Format Run Options Window Help from myModule import Dog #from 모듈명 import 가져올것 # xxx로 사용 d = Dog("뽀삐", 3) d.printInfo()</pre>
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<pre>Python 3.6.3 Shell File Edit Shell Debug Options Window Help Python 3.6.3 (v3.6.3:244c784e, Oct 8 2017) Type "copyright" and "credits()" for more >>> ===== 모듈 import 뽀삐 3 = >>></pre>	<pre>module.py - D:/workspacePython/module.py (3.6.3) File Edit Format Run Options Window Help from myModule import * #from 모듈명 import 가져올것 # xxx로 사용 d = Dog("뽀삐", 3) d.printInfo() funcTest()</pre>
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3.4 이름 중복시에는

<pre>Python 3.6.3 Shell File Edit Shell Debug Options Window Help Python 3.6.3 (v3.6.3:244c784e, Oct 8 2017) Type "copyright" and "credits()" for more >>> ===== 모듈 import 뽀삐 3 ㅎㅎㅎ >>></pre>	<pre>module.py - D:/workspacePython/module.py (3.6.3) File Edit Format Run Options Window Help from myModule import * def funcTest(): print("ㅎㅎㅎ") d = Dog("뽀삐", 3) d.printInfo() funcTest() # 같은 이름이 있으면 지금 파일이 우선</pre>
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