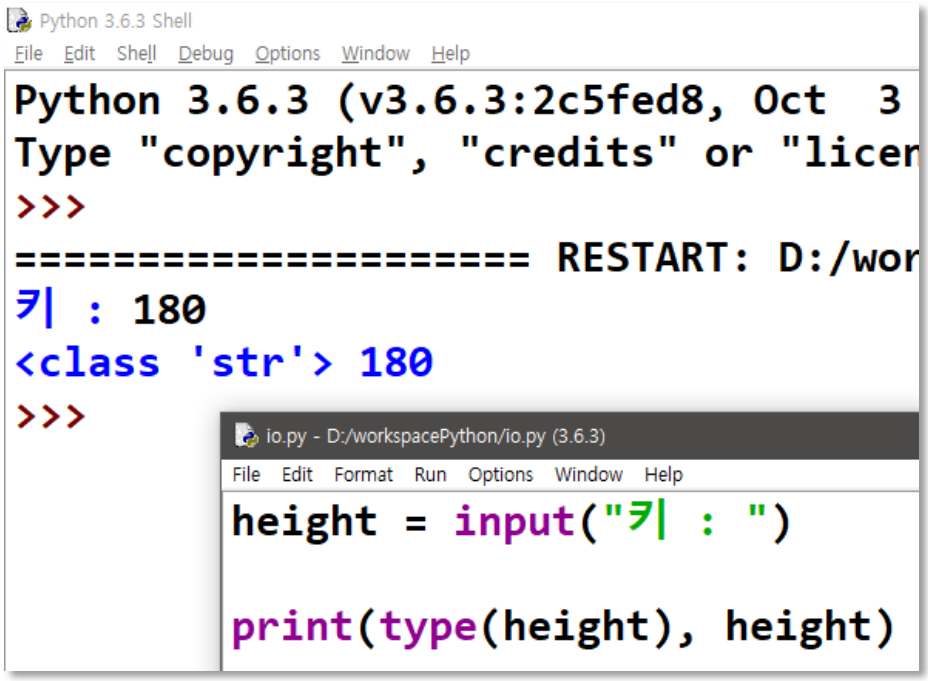
Python Programming
입출력
권기웅

python

1. 표준 입출력

1.1 표준입력



2. 파일 입출력

2.1 파일에 쓰기

```
Python 3.6.3 Shell
File Edit Shell Debug Options Window Help
Python 3.6.3 (v3.6.3:2c5fed8, Oct  3 2017, 18:11:49) [MSC v.1900 64 bit (AMD64)] on
Type "copyright", "credits" or "license()" for more information.
>>>
====================== RESTART: D:/workspacePython/io.py ======================
할 말 : ㅋ
할 말 : ㅎㅎ
할 말 : ㅋㅋㅋ
할 말 : ㅎㅎㅎㅎ
할 말 : ㅋㅋㅋㅋㅋ
할 말 :
끝
>>>
```

```
io.py - D:/workspacePython/io.py (3.6.3)
File Edit Format Run Options Window Help
import datetime
try:
    f = open("test.txt", "a") # w : write, a : append
    while True:
        txt = input("할 말 : ")
        now = datetime.datetime.now()
        f.write(str(now) + " : " + txt + "\n")
except:
    print("끝")
    f.close()
```

```
test.txt - 메모장
파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)
2017-11-18 00:03:31.678256 : ㅋ
2017-11-18 00:03:32.380180 : ㅎㅎ
2017-11-18 00:03:33.150476 : ㅋㅋㅋ
2017-11-18 00:03:34.137636 : ㅎㅎㅎㅎ
2017-11-18 00:03:35.240713 : ㅋㅋㅋㅋㅋ
```

2.2 파일 읽기

2.2.1 기본

```
Python 3.6.3 Shell
File Edit Shell Debug Options Window Help
Python 3.6.3 (v3.6.3:2c5fed8, Oct  3 2017, 18:11:49) [MSC v.1900 64 bit (AMD64)] on
Type "copyright", "credits" or "license()" for more information.
>>>
====================== RESTART: D:/workspacePython/io.py ======================
<class 'str'>
2017-11-18 00:03:31.678256 : ㅋ
2017-11-18 00:03:32.380180 : ㅎㅎ
2017-11-18 00:03:33.150476 : ㅋㅋㅋ
2017-11-18 00:03:34.137636 : ㅎㅎㅎㅎ
2017-11-18 00:03:35.240713 : ㅋㅋㅋㅋㅋ

>>>
```

```
io.py - D:/workspacePython/io.py (3.6.3)
File Edit Format Run Options Window Help
f = open("test.txt", "r") # r : read(기본값)
txt = f.read()
print(type(txt))
print(txt)
f.close()
```

2.2.2 한 줄씩 읽기

```
Python 3.6.3 Shell
File Edit Shell Debug Options Window Help
Python 3.6.3 (v3.6.3:2c5fed8, Oct  3 2017, 18:11:49) [MSC v.1900 64
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/workspacePython/io.py ==========
<class 'str'>
2017-11-18 00:03:31.678256 : ㅋ

<class 'str'>
2017-11-18 00:03:32.380180 : ㅎㅎ

>>>
```

```
io.py - D:/workspacePython/io.py (3.6.3)
File Edit Format Run Options Window Help
f = open("test.txt", "r")

txt = f.readline() # 한 줄 읽기
print(type(txt))
print(txt)

txt = f.readline()
print(type(txt))
print(txt)

f.close()
```

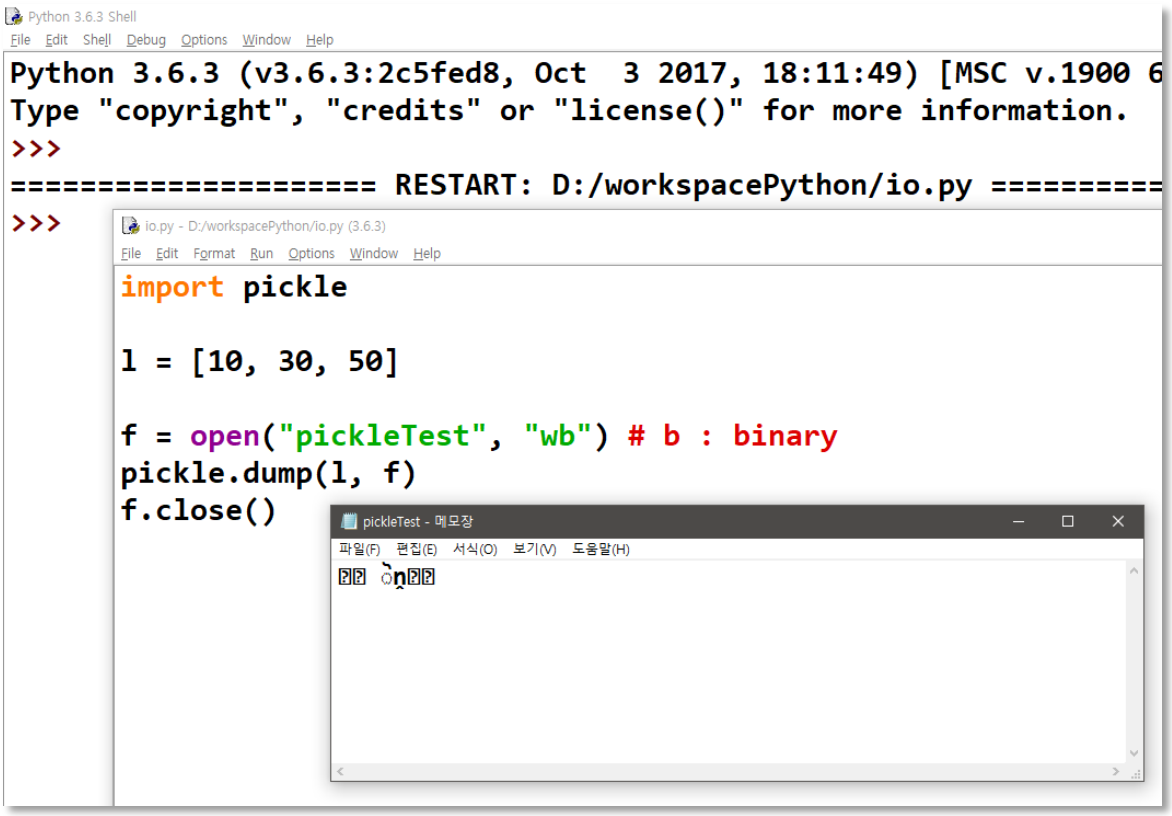
2.2.3 읽어서 list 로

```
Python 3.6.3 Shell
File Edit Shell Debug Options Window Help
Python 3.6.3 (v3.6.3:2c5fed8, Oct  3 2017, 18:11:49) [MSC v.1900 64 bit
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/workspacePython/io.py ==========
<class 'list'>
2017-11-18 00:03:31.678256 : ㅋ
2017-11-18 00:03:32.380180 : ㅎㅎ
2017-11-18 00:03:33.150476 : ㅋㅋㅋ
2017-11-18 00:03:34.137636 : ㅎㅎㅎㅎ
2017-11-18 00:03:35.240713 : ㅋㅋㅋㅋㅋ
>>>
```

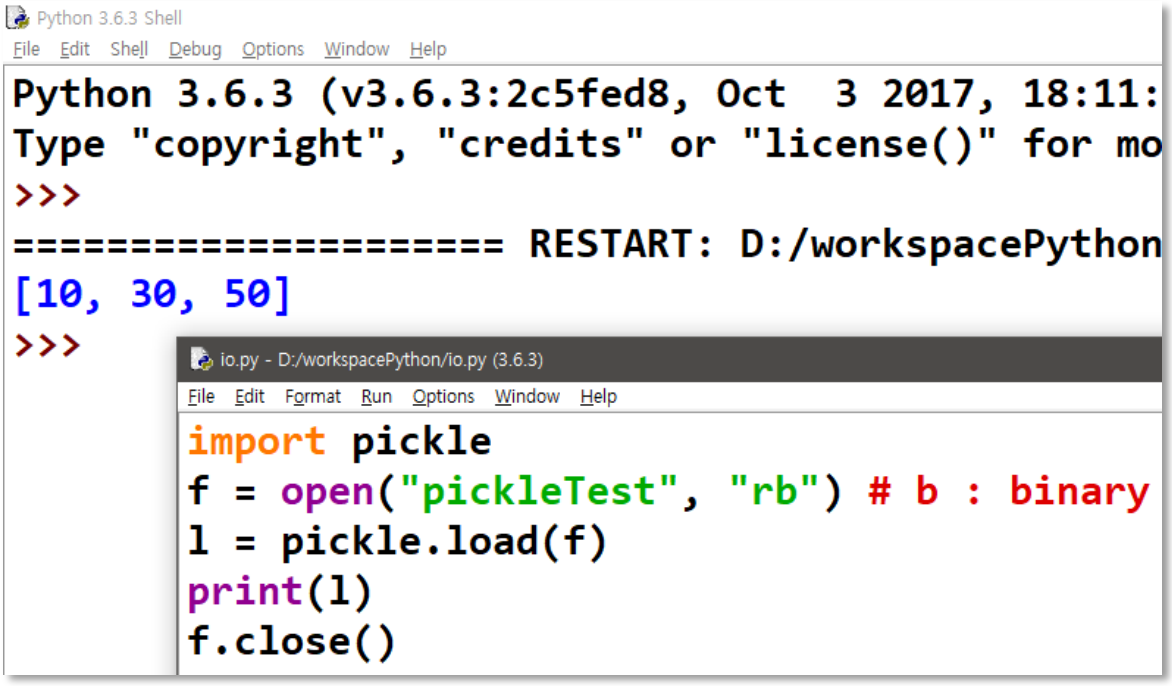
```
io.py - D:/workspacePython/io.py (3.6.3)
File Edit Format Run Options Window Help
f = open("test.txt", "r")
txt = f.readlines()

print(type(txt))
for line in txt:
    print(line.replace("\n",""))

f.close()
```

2.3 문자열 이외의 것

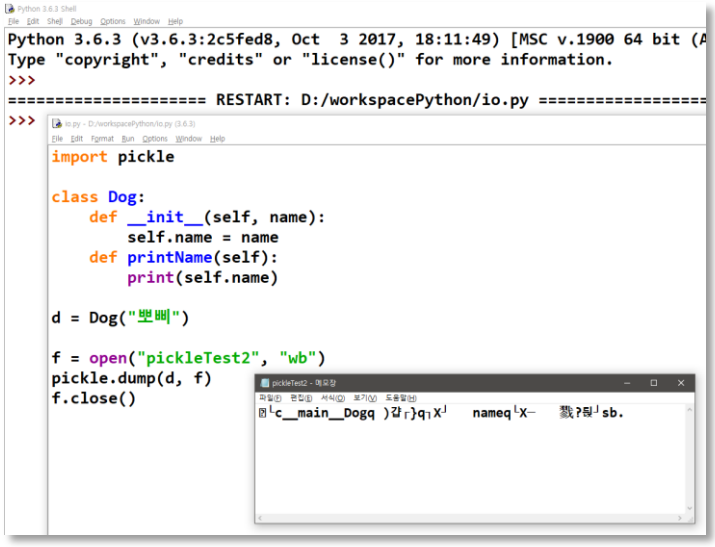
2.3.1 쓰기



2.3.2 읽기



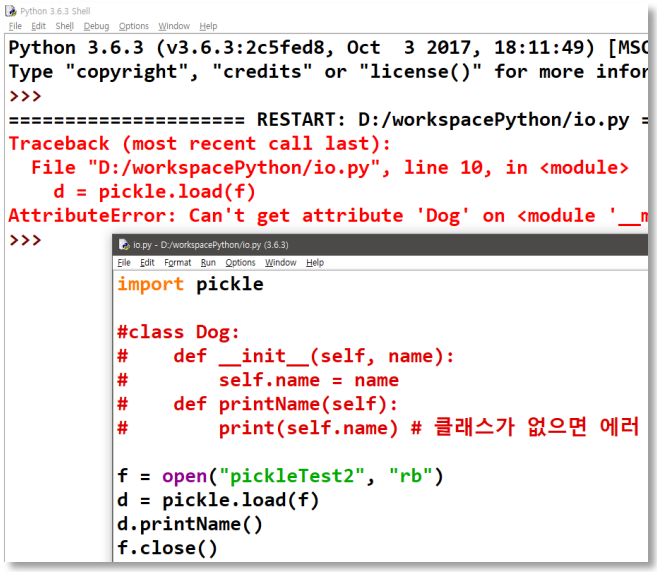
2.3.3 사용자가 만든 객체의 경우



```
Python 3.6.3 (v3.6.3:2c5fed8, Oct  3 2017, 18:11:49) [MSC v.1900 64 bit (A
Type "copyright", "credits" or "license()" for more information.
>>>
==================== RESTART: D:/workspacePython/io.py ==================
>>>
```

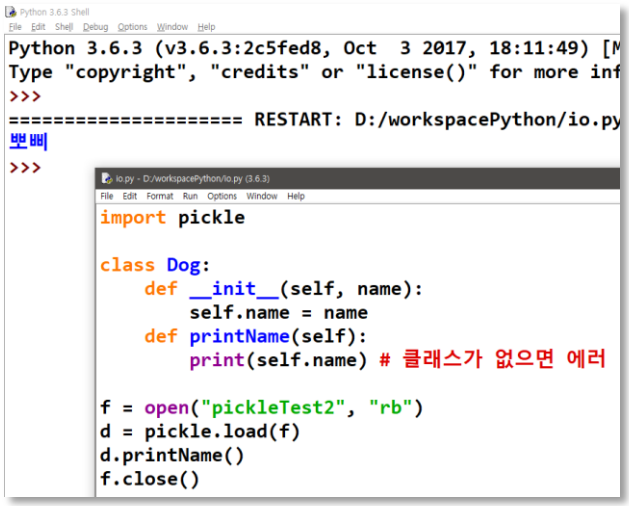
```python
import pickle

class Dog:
    def __init__(self, name):
        self.name = name
    def printName(self):
        print(self.name)

d = Dog("뽀삐")

f = open("pickleTest2", "wb")
pickle.dump(d, f)
f.close()
```

```
└c__main__Dogq )갑┌}q┐X┘    nameq└X─    戮?팀┘sb.
```



```
Python 3.6.3 (v3.6.3:2c5fed8, Oct  3 2017, 18:11:49) [MSC
Type "copyright", "credits" or "license()" for more infor
>>>
==================== RESTART: D:/workspacePython/io.py =
Traceback (most recent call last):
  File "D:/workspacePython/io.py", line 10, in <module>
    d = pickle.load(f)
AttributeError: Can't get attribute 'Dog' on <module '__m
>>>
```

```python
import pickle

#class Dog:
#    def __init__(self, name):
#        self.name = name
#    def printName(self):
#        print(self.name) # 클래스가 없으면 에러

f = open("pickleTest2", "rb")
d = pickle.load(f)
d.printName()
f.close()
```



```
Python 3.6.3 (v3.6.3:2c5fed8, Oct  3 2017, 18:11:49) [M
Type "copyright", "credits" or "license()" for more inf
>>>
==================== RESTART: D:/workspacePython/io.py
뽀삐
>>>
```

```python
import pickle

class Dog:
    def __init__(self, name):
        self.name = name
    def printName(self):
        print(self.name) # 클래스가 없으면 에러

f = open("pickleTest2", "rb")
d = pickle.load(f)
d.printName()
f.close()
```