





1. 문자열 - str

1.2 대소문자 관련

```
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) [MS
Type "copyright", "credits" or "license()" for more info
>>>
========== RESTART: D:/workspacePython/usefulClas
I am a boy.
               눩 usefulClass.py - D:/workspacePython/usefulClass.py (3.6.3)
               <u>File Edit Format Run Options Window Help</u>
I AM A BOY.
               txt = "i am a Boy."
i am a boy.
I AM A bOY.
               print(txt.capitalize()) # 문장 대소문자 정리
I Am A Boy.
               print(txt.upper()) # 대문자로
>>>
               print(txt.lower()) # 소문자로
               print(txt.swapcase()) # 대소문자 전환
               print(txt.title()) # 단어 첫글자 대문자로
```





1.3 찾기/바꾸기

1.4 확인하기

```
Python 3.6.3 (v3.6.3:2c5fed8, Oct 3 2017, 18:11:49) [MSC v.1900 64 bit (AMD64 Type "copyright", "credits" or "license()" for more information.
======= RESTART: D:/workspacePython/usefulClass.py ==========
                    usefulClass.py - D:/workspacePython/usefulClass.py (3.6
True
True
                    txt = "i am a Boy."
True
True
                     print(txt.startswith("i am")) # i am으로 시작하나
False
                    print(txt.startswith("am", 2)) # 2번째 글자부터가 am으로 시작하나 print(txt.startswith(("i","you"))) # i나 you로 시작하나 print(txt.endswith("y.")) # y.으로 끝나나
False
False
False
>>>
                     print(txt.isalnum()) # 알파벳 + 숫자만 있나
print(txt.isalpha()) # 알파벳만 있나
                     print(txt.islower()) # 소문자만 있나
                     print(txt.isdigit()) # 숫자만 있나
```

1.5 자르기





2. 숫자

2.1 내장함수

```
ile <u>E</u>dit She<u>l</u>l <u>D</u>ebug <u>O</u>ptions <u>W</u>indow <u>H</u>elp
Python 3.6.3 (v3.6.3:2c5fed8, Oct 3 2017, 18:11:49) [MSC
Type "copyright", "credits" or "license()" for more inform
======== RESTART: D:/workspacePython/usefulClass.
3934.415
            > *usefulClass.py - D:/workspacePython/usefulClass.py (3.6.3)*
3434
             File Edit Format Run Options Window Help
            1 = [10, 30, 39, 123.415, 3434, -111, 409]
-111
111
            print(sum(1)) # 합
123
            print(max(1)) # 최대값
123.42
            print(min(l)) # 최소값
120.0
>>>
             print(abs(1[5])) # 절대값
             print(round(1[3])) # 소수 첫째자리에서 반올림
             print(round(1[3], 2)) # 소수 셋째자리에서 반올림
             print(round(1[3], -1)) # 일의 자리에서 반올림
```

2.2 math 모듈

```
Eile <u>E</u>dit She<u>l</u>l <u>D</u>ebug <u>O</u>ptions <u>W</u>indow <u>H</u>elp
Python 3.6.3 (v3.6.3:2c5fed8, Oct 3 2017, 18:11
Type "copyright", "credits" or "license()" for r
>>>
3.141592653589793 usefulClass.py - D:/workspacePython/usefulClass.py (3.6.3)
                      <u>File Edit Format Run Options Window Help</u>
2.718281828459045
                      import math
124
123
                      x = 10
3628800
                      y = 123.415
3.1622776601683795
>>>
                      print(math.pi)
                      print(math.e)
                      print(math.ceil(y)) # 올림
                      print(math.floor(y)) # 내림
                      print(math.factorial(x)) # !
                      print(math.sqrt(x)) # 제곱근
```





2.3 random 모듈





3. 날짜

3.1 시간날짜

```
Python 3.6.3 (v3.6.3:2c5fed8, Oct 3 2017, 18:11:49) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
======== RESTART: D:/workspacePython/usefulClass.py ===========
2017-11-17 23:29:40.708451
                            🗞 usefulClass.py - D:/workspacePython/usefulClass.py (3.6.3)
2017
                             import datetime
11
17
                             now = datetime.datetime.today() # 현재 시간날짜
23
                             print(now)
29
40
                             print(now.year)
708451
                             print(now.month)
2001-01-02 03:04:05.000006
                             print(now.day)
2001-11-02 03:04:05.000006
                             print(now.hour)
>>>
                             print(now.minute)
                             print(now.second)
                             print(now.microsecond)
                             x = datetime.datetime(2001, 1, 2, 3, 4, 5, 6) # 특정 날짜시간
                             print(x)
                             y = x.replace(month = 11) # 변경
                             print(y)
```

3.2 시간날짜 계산

