코딩입문(Python)(0301) 7주차
강의노트 실습 보고서
2022125028 안기겸

```
Python 3.10.1 (v3.10.1:2cd268a3a9, Dec  6 2021, 14:28:59) [Clang 13.0.0 (clang-1
300.0.29.3)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>> age = 12345
>>> type(age)
<class 'int'>
>>> id(age)
4400270160
>>> x = "2019"
>>> y = "2000"
>>> int(x) - int(y)
19
>>> type(x)
<class 'str'>
>>> x = int("2019")
>>> y = int("2000")
>>> x - y
19
>>> type(x)
<class 'int'>
>>> year = input("몇 년도에 태어났나요? ")
몇 년도에 태어났나요? 2003
>>>
>>> age = 2019 - int(year) + 1
>>> print("그럼 올해", age, "살 이겠군요")
그럼 올해 17 살 이겠군요
>>> year = int(input("몇 년도에 태어났나요? "))
몇 년도에 태어났나요? 2003
>>> age = 2018 - year + 1
>>> print("그럼 올해", age, "살이겠군요")
그럼 올해 16 살이겠군요
>>> dict = {"강아지":"dog", "고양이":"cat", "새":"bird"}
>>> dict
{'강아지': 'dog', '고양이': 'cat', '새': 'bird'}
>>> dict["강아지"]
'dog'
>>> dict.keys()
dict_keys(['강아지', '고양이', '새'])
>>> dict.values()
dict_values(['dog', 'cat', 'bird'])
>>> dict.items()
dict_items([('강아지', 'dog'), ('고양이', 'cat'), ('새', 'bird')])
>>> for item in dict.items():
...     print(item)
...
...
('강아지', 'dog')
('고양이', 'cat')
('새', 'bird')
>>> for item in dict.items():
...     print(item)
...     print(item[0])
...     print(item[1])
...
...
('강아지', 'dog')
강아지
dog
('고양이', 'cat')
고양이
cat
('새', 'bird')
새
bird
>>> mydict = {}
>>> mydict['홍길동'] = '010-1111-1111'
>>>
>>> mydict['이순신'] = '010-2222-2222'
>>> print(mydict)
{'홍길동': '010-1111-1111', '이순신': '010-2222-2222'}
>>> mydict = {'ㅎ호홍홍홍ㄱ그기길길길ㄷ도동동동'_ =_ '010-1111-1111', 'ㅇ이잇이이수순순순ㅅ시신신신'_ =
_ '010-2222-2222'}
SyntaxError: invalid syntax
>>>
```

```
Python 3.10.1 (v3.10.1:2cd268a3a9, Dec  6 2021, 14:28:59) [Clang 13.0.0 (clang-1
300.0.29.3)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>> mydict = {'홍길동':'010-1111-1111', '이순신':'010-2222-2222'}
>>> print(mydict)
{'홍길동': '010-1111-1111', '이순신': '010-2222-2222'}
>>> del mydict['이순신']
>>> print(mydict)
{'홍길동': '010-1111-1111'}
>>> dic.clear()
Traceback (most recent call last):
  File "<pyshell#4>", line 1, in <module>
    dic.clear()
NameError: name 'dic' is not defined. Did you mean: 'dir'?
>>> mydic.clear()
Traceback (most recent call last):
  File "<pyshell#5>", line 1, in <module>
    mydic.clear()
NameError: name 'mydic' is not defined. Did you mean: 'mydict'?
>>> mydict.clear()
>>> print(mydict)
{}
>>> del mydict
>>> a = "ABC"
>>> i = 1
>>> a[i]
'B'
>>> i = 3
>>> a[i]
Traceback (most recent call last):
  File "<pyshell#13>", line 1, in <module>
    a[i]
IndexError: string index out of range
>>> len(a)
3
>>> a = "HELLO Python"
>>> a[0]
'H'
>>> a[0:5]
'HELLO'
>>> a[6:12]
'Python'
>>> a[-11:-8]
'ELL'
>>> a[0:-7]
'HELLO'
>>> a = 'HELLO'
>>> print(a[0])
H
>>> print(a[-1])
O
>>> print([a[0:4]])
['HELL']
>>> print([a[:3]])
['HEL']
>>> print([a[0:]])
['HELLO']
>>> a = "save"
>>> b = "earth"
>>> print(a+b)
saveearth
>>> a = "panimalar"
>>> b = "earth
SyntaxError: unterminated string literal (detected at line 1)
>>> print(a*3)
panimalarpanimalarpanimalar
>>> s = "good morning"
>>> "m" in s
True
>>> "a" not in s
True
>>> x = 10
>>> 'x is {}
SyntaxError: unterminated string literal (detected at line 1)
>>> 
```

```
Python 3.10.1 (v3.10.1:2cd268a3a9, Dec  6 2021, 14:28:59) [Clang 13.0.0 (clang-1
300.0.29.3)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>> a = 'happy birthday'
>>> a.capitalize()
'Happy birthday'
>>> a.upper()
'HAPPY BIRTHDAY'
>>> a.lower()
'happy birthday'
>>> a.title()
'Happy Birthday'
>>> a.swapcase()
'HAPPY BIRTHDAY'
>>> a.split()
['happy', 'birthday']
>>> a.center(19, "*")
'***happy birthday***'
>>> a.count('happy')
1
>>> a.replace('happy', 'wishyou happy')
'wishyou happy birthday'
>>> b = "happy"
>>> a = '-'
>>> a.join(b)
'h-a-p-p-y'
>>> a = 'happy birthday'
>>> a.isupper()
False
>>> a.islower()
True
>>> a.isalpha()
False
>>> a.isalnum()
False
>>> a.isdigit()
False
>>> a.isspace()
False
>>> a.istitle()
False
>>> a.startswith('h')
True
>>> a.endswith('y')
True
>>> a.find('happy')
0
>>> len(a)
14
>>> min(a)
' '
>>> max(a)
'y'
>>> min(a)
' '
>>> 
```

```
Python 3.10.1 (v3.10.1:2cd268a3a9, Dec  6 2021, 14:28:59) [Clang 13.0.0 (clang-1
300.0.29.3)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>> a = 'happy birthday'
>>> a.capitalize()
'Happy birthday'
>>> a.upper()
'HAPPY BIRTHDAY'
>>> a.lower()
'happy birthday'
>>> a.title()
'Happy Birthday'
>>> a.swapcase()
'HAPPY BIRTHDAY'
>>> a.split()
['happy', 'birthday']
>>> a.center(19, "*")
'***happy birthday**'
>>> a.count('happy')
1
>>> a.replace('happy', 'wishyou happy')
'wishyou happy birthday'
>>> b = "happy"
>>> a = '-'
>>> a.join(b)
'h-a-p-p-y'
>>> a = 'happy birthday'
>>> a.isupper()
False
>>> a.islower()
True
>>> a.isalpha()
False
>>> a.isalnum()
False
>>> a.isdigit()
False
>>> a.isspace()
False
>>> a.istitle()
False
>>> a.startswith('h')
True
>>> a.endswith('y')
True
>>> a.find('happy')
0
>>> len(a)
14
>>> min(a)
' '
>>> max(a)
'y'
>>> min(a)
' '

>>>
```

```
Python 3.10.1 (v3.10.1:2cd268a3a9, Dec  6 2021, 14:28:59) [Clang 13.0.0 (clang-1
300.0.29.3)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>> a = []
>>> b = [1, 2, 3]
>>> c = ['Life', 'is', 'too', 'short']
>>> d = [1, 2, 'Life', 'is']
>>> e = [1, 2, ['Life', 'is']]
>>> a = [1, 2, 3]
>>> a[0]
1
>>> a[0] + a[2]
4
>>> a = [1, 2, 3, ['a', 'b', 'c']]
>>> a[0]
1
>>> a[-1]
['a', 'b', 'c']
>>> a[3]
['a', 'b', 'c']
>>> a[-1][0]
'a'
>>> a[-1][1]
'b'
>>> a[-1][2]
'c'
>>> a = [1, 2, ['a', 'b', ['Life', 'is']]]
>>> a[2][2][0]
'Life'
>>> a[1, 2, 3, 4, 5]
Traceback (most recent call last):
  File "<pyshell#17>", line 1, in <module>
    a[1, 2, 3, 4, 5]
TypeError: list indices must be integers or slices, not tuple
>>> a = [1, 2, 3, 4, 5]
>>> a[0:2]
[1, 2]
>>> b = a[:2]
>>> c = a[2:]
>>> b
[1, 2]
>>> c
>>> 
>>> a = [1, 2, 3, ['a', 'b', 'c'], 4, 5]
>>> a[2:5]
[3, ['a', 'b', 'c'], 4]
>>> a[3][:2]
['a', 'b']
>>> a = [1, 2, 3]
>>> b = [4, 5, 6]
>>> a+b
[1, 2, 3, 4, 5, 6]
>>> a = [1, 2, 3]
>>> a*3
[1, 2, 3, 1, 2, 3, 1, 2, 3]
>>> a = [1, 2, 3]
>>> len(a)
3
>>> 
```

```
Python 3.10.1 (v3.10.1:2cd268a3a9, Dec  6 2021, 14:28:59) [Clang 13.0.0 (clang-1
300.0.29.3)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>> a = [1, 2, 3]
>>> a.append(4)
>>> a
[1, 2, 3, 4]
>>> a = [1, 4, 3, 2]
>>> a.sort()
>>> a = ['a', 'c', 'b']
>>> a.reverse()
>>> a
['b', 'c', 'a']
>>> a = [1, 2, 3]
>>> a.index(3)
2
>>> a.index(1)
0
>>> a = [1, 2, 3]
>>> a.insert(0, 4)
>>> a
[4, 1, 2, 3]
>>> a.insert(3, 5)
>>> a
[4, 1, 2, 5, 3]
>>> a = [1, 2, 3, 1, 2, 3]
>>> a.remove(3)
>>> a
[1, 2, 1, 2, 3]
>>> a = [1, 2, 3]
>>> a.pop()
3
>>> a
[1, 2]
>>> a = [1, 2, 3, 1]
>>> a.count(1)
2
>>> a = [1, 2, 3]
>>> a.extend([4, 5])
>>> a
[1, 2, 3, 4, 5]
>>> b = [6, 7]
>>> a.extend(b)
>>> a
[1, 2, 3, 4, 5, 6, 7]
>>>
```