Nhấp đúp (hoặc nhấn Enter) để chỉnh sửa

Student name: Bùi Thị Thúy Ngọc

```
Student ID: 19521904
WEEK 1 - LAB01
Link github: <a href="https://github.com/BuiThiThuyNgoc/MKTG5883">https://github.com/BuiThiThuyNgoc/MKTG5883</a>
1+1
      2
Nhấp đúp (hoặc nhấn Enter) để chỉnh sửa
1*3
      3
1/2
      0.5
2**4
      16
4 % 2
      0
5 % 2
      1
(2 +3) * (5 + 5)
      50
name\_of\_var = 2
x = 2
y = 3
z = x + y
      5
'single quotes'
      'single quotes'
"double quotes"
      'double quotes'
"wrap lot's of other quotes"
      'wrap lot's of other quotes'
x = 'hello'
      'hello'
print(x)
      hello
```

```
num = 12
name = 'Sam'
print('My name is: {one}, and my name is: {two}'.format(one = num, two = name))
     My name is: 12, and my name is: Sam
print('My name is: {}, and my name is: {}'.format(num,name))
     My name is: 12, and my name is: Sam
[1, 2, 3]
     [1, 2, 3]
['hi', 1, [1, 2]]
     ['hi', 1, [1, 2]]
my_list = ['a', 'b', 'c']
my_list.append('d')
my_list
     ['a', 'b', 'c', 'd']
my_list[0]
     'a"
my_list[1]
     'b"
my_list[1:]
     ['b', 'c', 'd']
my_list[:1]
     ['a']
my_list[0] = 'NEW'
{\tt my\_list}
     ['NEW', 'b', 'c', 'd']
nest = [1,2,3,[4,5,['target']]]
nest[3]
     [4, 5, ['target']]
nest[3][2]
     ['target']
nest[3][2][0]
     'target'
d = {'key1' : 'item1', 'key2' : 'item2'}
     {'key1': 'item1', 'key2': 'item2'}
d['key1']
     'item1'
True
     True
False
```

False

```
Nhấp đúp (hoặc nhấn Enter) để chỉnh sửa
t = (1, 2, 3)
t[0]
     1
t1=list(t)
t1[0]="NEW"
t=list(t1)
     ['NEW', 2, 3]
{1, 2, 3}
     {1, 2, 3}
{1, 2, 3, 1, 2, 1, 2, 3, 3, 3, 3, 2, 2, 2, 1, 1, 2}
     {1, 2, 3}
1 > 2
     False
1 < 2
     True
1 >= 1
     True
1 <= 4
     True
1 == 1
     True
'hi' == 'bye'
     False
(1 > 2) and (2 < 3)
     False
(1 > 2) or (2 < 3)
     True
(1 == 2) or (2 == 3) or (4 == 4)
     True
if 1 < 2:
  print('Yep!')
     Yep!
if 1 < 2:
  print('yep!')
```

```
yep!
if 1 < 2:
 print('first')
else:
     print('last')
     first
if 1 > 2:
 print('first')
else:
     print('last')
     last
if 1 == 2:
 print('first')
elif 3 ==3:
 print('middle')
     print('last')
     middle
seq = [1, 2, 3, 4, 5]
for item in seq:
 print(item)
     1
     2
     3
     4
     5
for item in seq:
 print('Yep')
     Yep
     Yep
     Yep
     Yep
    Yep
for jelly in seq:
 print(jelly + jelly)
     4
     6
     8
    10
i = 1
while i < 5:
 print('i is: {}'.format(i))
 i = i+1
     i is: 1
     i is: 2
     i is: 3
     i is: 4
range(5)
     range(0, 5)
for i in range(5):
 print(i)
     0
     1
     2
     3
     4
list(range(5))
```

```
[0, 1, 2, 3, 4]
x = [1, 2, 3, 4]
out = []
for item in x:
  out.append(item**2)
  print(out)
     [1]
     [1, 4]
[1, 4, 9]
[1, 4, 9, 16]
[item**2 for item in x]
     [1, 4, 9, 16]
def my_func(param1='default'):
  Docstring goes here.
  print(param1)
my_func
     <function __main__.my_func(param1='default')>
my_func()
     default
my_func('new param')
     new param
my_func(param1 = 'new param')
     new param
def square(x):
  return x**2
out = square(2)
print(out)
def times2(var):
 return var*2
times2(2)
lambda var : var*2
     <function __main__.<lambda>(var)>
seq = [1, 2, 3, 4, 5]
map(times2, seq)
     <map at 0x7f2bf61c70d0>
list(map(times2, seq))
     [2, 4, 6, 8, 10]
list(map(lambda var : var*2, seq))
     [2, 4, 6, 8, 10]
filter(lambda item : item%2 == 0, seq)
     <filter at 0x7f2bf6097f10>
```

```
list(filter(lambda item : item%2 == 0, seq))
     [2, 4]
st = 'hello my name is Sam'
st.lower()
     'hello my name is sam'
st.upper()
     'HELLO MY NAME IS SAM'
st.split()
     ['hello', 'my', 'name', 'is', 'Sam']
tweet = 'Go Sports! #Sports'
tweet.split('#')
     ['Go Sports! ', 'Sports']
tweet.split('#')[1]
     'Sports'
d
     {'key1': 'item1', 'key2': 'item2'}
d.keys()
     dict_keys(['key1', 'key2'])
d.items()
     dict_items([('key1', 'item1'), ('key2', 'item2')])
lst = [1, 2, 3]
lst.pop()
     3
lst
     [1, 2]
'x' in [1, 2, 3]
     False
Nhấp đúp (hoặc nhấn Enter) để chỉnh sửa
'x' in ['x', 'y', 'z']
     True
IV. Python basics - Exercises
7 ** 4
     2401
st = 'Hi there Sam!'
st.split()
my_list = st.split()
my_list[2] = 'dad!'
my_list
     ['Hi', 'there', 'dad!']
```

```
planet = "Earth"
diameter = 12742
print('The diameter of {one} is {two} kilometers.'.format(one = planet, two = diameter))
     The diameter of Earth is 12742 kilometers.
lst = [1, 2, [3, 4], [5, [100, 200, ['hello']], 23, 11], 1, 7]
lst[3][1][2][0]
     'hello'
d = {'k1': [1, 2, 3, {'tricky': ['oh', 'man', 'inception', {'target': [1, 2, 3, 'hello']}]}]}
      2,
      3,
      {'tricky': ['oh', 'man', 'inception', {'target': [1, 2, 3, 'hello']}]}]
d['k1'][3]['tricky'][3]['target'][3]
     'hello'
def domainGet(email):
 return email.split('@')[-1]
domainGet('user@domain.com')
     'domain.com'
def findDog(st):
 return 'dog' in st.lower().split()
findDog('Is there a dog here?')
def countDog(st):
  count = 0
  for word in st.lower().split():
    if word == 'dog':
     count += 1
  return count
countDog('This dog runs faster than the other dog dude!')
     2
seq = ['soup', 'dog', 'salad', 'cat', 'great']
list(filter(lambda word: word[0] == 's', seq))
     ['soup', 'salad']
FINAL Problem
def caught_speeding(speed, is_birthday):
  if is_birthday:
   speeding = speed - 5
  else:
   speeding = speed
  if speeding > 80:
   return 'Big Ticket'
  elif speeding > 60:
   return 'Small Ticket'
  else:
    return 'No Ticket'
caught_speeding(81,True)
     'No Ticket'
caught_speeding(40,0)
```

'No Ticket'

caught\_speeding(81,False)

'Big Ticket'

• X