4장
파이썬 기초

Eunji Lee

연습문제 01

- 단어와 문장을 입력 받아 해당 단어가 문장에 포함되어 있는지를 체크하는 함수를 완성하시오.

```python
def is_included (word, sentence):




print(is_included("love", "I love you"))
print(is_included("me", "I love you"))
print(is_included("you", "I love you"))
```

```
yes
no
yes
```

연습문제 02

- 사용자로부터 5개의 숫자를 입력 받아 리스트에 저장하는 함수를 완성하시오.

실행결과

```
def do_sum():
  num = []
  for i in range(5):
    inp = input("Type the number: ")
    num.███████(int(inp))


  sum = 0
  ██████████████████



  print(sum)

if __name__ == ███████████
    do_sum()
```

```
⤷    Type the number: 1
     Type the number: 2
     Type the number: 3
     Type the number: 4
     Type the number: 5
     15
```

연습문제 03

- 오른쪽의 결과가 나오도록 코드를 완성하시오.

```python
phonebook = dict()

def insert(name, number):
    

def delete(name):
  return phonebook.    (name, -1)

def search(name):
    

def scan():
    

if __name__ ==    :
  while 1:
    choice = input("Select the menu. 1:insert, 2:delete, 3:search, 4: scan, 5: quit : ")
    if choice == "1": # insert
      name = input("Type your name: ")
      number = input("Type your phone number: ")
      insert(name, number)
    elif choice == "2": # delete
      name = input("Type your name: ")
      delete(name)
    elif choice == "3": # search
      name = input("Type your name: ")
      number = search(name)
      print(number)
    elif choice == "4": # scan
      scan()
    elif choice == "5": # quit
      break
    else:
      print("Wrong number")
```

실행결과

```
Select the menu. 1:insert, 2:delete, 3:search, 4: scan, 5: quit : 1
Type your name: Alice
Type your phone number: 123
Select the menu. 1:insert, 2:delete, 3:search, 4: scan, 5: quit : 1
Type your name: Mike
Type your phone number: 456
Select the menu. 1:insert, 2:delete, 3:search, 4: scan, 5: quit : 4
Alice 123
Mike 456
Select the menu. 1:insert, 2:delete, 3:search, 4: scan, 5: quit : 3
Type your name: Alice
123
Select the menu. 1:insert, 2:delete, 3:search, 4: scan, 5: quit : 2
Type your name: Alice
Select the menu. 1:insert, 2:delete, 3:search, 4: scan, 5: quit : 4
Mike 456
Select the menu. 1:insert, 2:delete, 3:search, 4: scan, 5: quit : 5
```

연습문제 04

- 오른쪽 실행결과가 나오도록 class Employee 를 완성 하시오. 단 Employee 내부에서 이름과 월급은 private 변수로 저장하여 메소드를 통해서만 접근하도록 한다.

```python
class Employee:

    def __init__(self, name="NULL", salary=0):

    def get_name(self):

    def get_salary(self):

    def get_emp_cnt(self):


if __name__ == [          ]:

  Company = []

  data = {"Alice":200, "Bob":300, "Mike": 100}

  for key in data:
      emp = Employee(key, data[key])
      Company.append(emp)

  ### 총 employee 의 숫자 ##
  print("Total number of employees: ", Company[0].get_emp_cnt())

  ### 최대 월급 직원 정보를 리스트를 탐색하여 찾는 경우 ##
  max_salary = 0
  max_name = ""
  for emp in Company:
      if int(emp.get_salary()) > max_salary:
          max_name = emp.get_name()
          max_salary = int(emp.get_salary())

  print("Max-salary employee: ", max_name, max_salary)
```

실행결과

```
Total number of employees:  3
Max-salary employee:  Bob 300
```