

파이썬 프로그래밍

contact.py

```
class Contact:
  def __init__(self, name, phone, email, address):
     self.name = name
     self.phone = phone
     self.email = email
     self.address = address
  def print_info(self):
     print("Name: ", self.name)
     print("Phone: ", self.phone)
     print("Email: ", self.email)
     print("Address: ", self.address)
def run():
   kim = Contact('김일구', '010-8812-1193', 'ilgu.kim@python.com', 'Seoul')
   kim.print_info()
if __name__ == "__main__":
  run()
```

❖ 사용자로부터 데이터 입력받기

```
class Contact:
   def __init__(self, name, phone, email, address):
     self.name = name
     self.phone = phone
     self.email = email
     self.address = address
   def print_info(self):
     print("Name: ", self.name)
     print("Phone: ", self.phone)
     print("Email: ", self.email)
     print("Address: ", self.address)
def set_contact():
   name = input("Name: ")
   phone = input("Phone: ")
   email = input("Email: ")
   address = input("Address: ")
   print(name, phone, email, address)
def run():
   set_contact()
if __name__ == "__main ":
  run()
```

❖ 메인 메뉴 구성하기

```
def print_menu():
    print("1. 연락처 입력")
    print("2. 연락처 출력")
    print("3. 연락처 삭제")
    print("4. 종료")
    menu = input("메뉴 선택: ")
    return int(menu)

def run():
    while True:
    menu = print_menu()
    if menu == 4:
        break
```



❖ 연락처 입력 동작시키기

```
def set_contact():
    name = input("Name: ")
    phone = input("Phone: ")
    email = input("Email: ")
    address = input("Address: ")
    contact = Contact(name, phone, email, address)
    return contact
```

Contact 클래스 인스턴스 생성 후 반환



❖ 연락처 입력 동작시키기

```
def run():
    contact_list = []
    while True:
        menu = print_menu()
    if menu == 1:
        contact = set_contact()
        contact_list.append(contact)
    elif menu == 4:
        break
```

1번 메뉴를 선택했을 때 set_contact() 호출 리스트에 Contact 인스턴스 반환 값 추가



❖ 연락처 출력하기

```
def print_contact(contact_list):
   for contact in contact_list:
        contact.print_info()

Contact 클래스의 print_info() 메소드 활용

def run():
   contact_list = []
```

```
contact_list = []
while True:
    menu = print_menu()
    if menu == 1:
        contact = set_contact()
        contact_list.append(contact)
    elif menu == 2:
        print_contact(contact_list)
    elif menu == 4:
        break
```

run함수 수정



❖ 연락처 삭제하기

```
def delete_contact(contact_list, name):
  for i, contact in enumerate(contact_list):
     if contact.name == name:
        del contact_list[i]
연락처 리스트와 삭제할 이름을 인자로 사용
def run():
  contact_list = []
  while True:
     menu = print_menu()
     if menu == 1:
        contact = set contact()
        contact_list.append(contact)
     elif menu == 2:
        print_contact(contact_list)
     elif menu == 3:
        name = input("Name: ")
        delete_contact(contact_list, name)
     elif menu == 4:
        break
```

run함수 수정

❖ 연락처 파일 저장

```
def store_contact(contact_list):
  with open("contact_db.txt", "wt") as file:
     for contact in contact list:
        file.write(contact.name + '₩n')
        file.write(contact.phone + '₩n')
        file.write(contact.email + '₩n')
        file.write(contact.address + '₩n')
def run():
  contact_list = []
  while True:
     menu = print_menu()
     if menu == 1:
        contact = set_contact()
        contact_list.append(contact)
     elif menu == 2:
        print_contact(contact_list)
     elif menu == 3:
        name = input("Name: ")
        delete_contact(contact_list, name)
     elif menu == 4:
        store_contact(contact_list)
        break
```

❖ 연락처 파일 로드

```
def load_contact(contact_list):
    with open("contact_db.txt", "rt") as file:
    lines = file.readlines()
    num = len(lines) / 4
    num = int(num)

    for i in range(num):
        name = lines[4*i].rstrip('\psi n')
        phone = lines[4*i+1].rstrip('\psi n')
        email = lines[4*i+2].rstrip('\psi n')
        address = lines[4*i+3].rstrip('\psi n')
        contact = Contact(name, phone, email, address)
        contact_list.append(contact)
```

❖ 연락처 파일 로드

```
def run():
  contact_list = []
  load_contact(contact_list)
  while True:
     menu = print_menu()
     if menu == 1:
        contact = set_contact()
        contact_list.append(contact)
     elif menu == 2:
        print_contact(contact_list)
     elif menu == 3:
        name = input("Name: ")
        delete_contact(contact_list, name)
     elif menu == 4:
        store_contact(contact_list)
        break
```



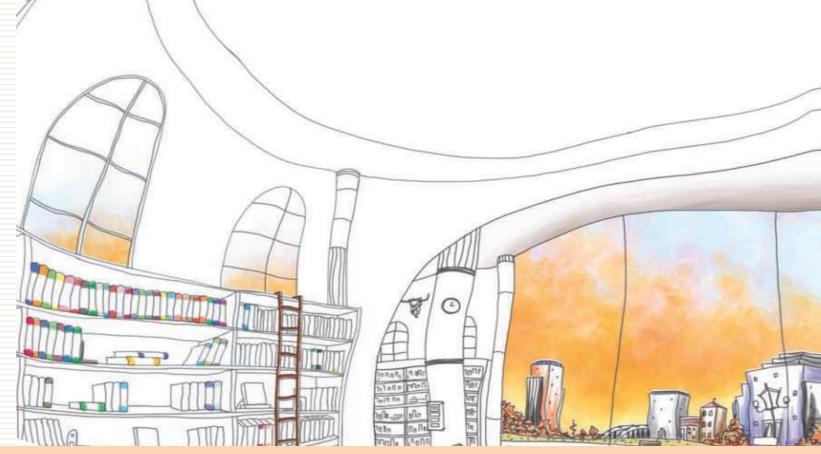
❖ 명령 프롬프트에서 프로그램 실행하기

윈도우키 + r 을 눌러 실행창에서 cmd 입력 후 엔터

명령프롬프트 창에서

python contact.py





Thank You!

파이썬 프로그래밍