

SWP-II 3조 발표

이정하, 임이현, 장우혁, 정지현

del

```
elif parse[0] == 'del':  
    for p in scdb:  
        if p['Name'] == parse[1]:  
            scdb.remove(p)  
            break
```



```
elif parse[0] == 'del':  
    for p in scdb:  
        if p['Name'] == parse[1]:  
            scdb.remove(p)
```

```
/Library/Frameworks/Python.framework/Versions/3.6/bin/python3.6  
Open DB: test3_4.dat  
Score DB > show  
Age=18 Name=Choi Score=84  
Age=19 Name=Kim Score=95  
Age=18 Name=Lee Score=91  
Age=23 Name=Park Score=79  
Score DB > add jang 20 20  
Score DB > add jang 21 21  
Score DB > add jang 22 22  
Score DB > add jang 23 23  
Score DB > del jang  
Score DB > show  
Age=18 Name=Choi Score=84  
Age=19 Name=Kim Score=95  
Age=18 Name=Lee Score=91  
Age=23 Name=Park Score=79  
Age=21 Name=jang Score=21  
Age=23 Name=jang Score=23
```

del 코드리뷰

```
elif parse[0] == 'del':  
    try:  
        scdb_del = []  
        for p in scdb:  
            if p['Name'] != parse[1]:  
                scdb_del.append(p)  
        scdb = scdb_del
```

add 예외처리

```
Score DB > add sadvas
Traceback (most recent call last):
  File "/Users/spectator/Desktop/testing/assignment3\_20171693.py", line 111, in <module>
    doScoreDB(scoredb)
  File "/Users/spectator/Desktop/testing/assignment3\_20171693.py", line 42, in doScoreDB
    record = {'Name': parse[1], 'Age': int(parse[2]), 'Score': int(parse[3])}
IndexError: list index out of range

Process finished with exit code 1
```

add 예외처리

```
if parse[0] == 'add':  
    try:  
        record = {'Name': parse[1], 'Age': int(parse[2]), 'Score': int(parse[3])}  
    except ValueError:  
        print("Score and Age must be Integer")  
    except:  
        print("Please rewrite properly")  
        print("Example: add Jung 21 100")  
    else:  
        scdb += [record]
```

add -> int 변환 기능 구현

```
def readScoreDB():  
    try:  
        fH = open(dbfilename, 'rb')  
    except FileNotFoundError:  
        print("New DB: ", dbfilename)  
        return []  
  
    scdb = []  
    try:  
        scdb = pickle.load(fH)  
        for p in scdb:  
            for attr in p:  
                if attr == 'Age' or attr == 'Score':  
                    p[attr] = int(p[attr])  
    except:  
        print("Empty DB: ", dbfilename)  
    else:  
        print("Open DB: ", dbfilename)  
    fH.close()  
    return scdb
```

```
if parse[0] == 'add':  
    try:  
        record = {'Name': parse[1], 'Age': int(parse[2]), 'Score': int(parse[3])}  
        scdb += [record]  
    except ValueError:  
        print("Error : input right value")
```

add -> int 변환 기능 구현

```
/Library/Frameworks/Python.framework/Versions/3.6/bin/python3.6 /Users/spectator/Desktop/testing/assignment3_20171693.py
Open DB: test3_4.dat
[{'Age': 18, 'Name': 'Lee', 'Score': 91}, {'Age': 19, 'Name': 'Kim', 'Score': 95}, {'Age': 18, 'Name': 'Choi', 'Score': 84}, {'Age': 23, 'Name': 'Park', 'Score': 79}]
Score DB >
```

예외처리 – show

```
/Library/Frameworks/Python.framework/Versions/3.6/bin/python3.6 /Users/spectato
Open DB: test3_4.dat
Score DB > show name
Traceback (most recent call last):
  File "/Users/spectator/Desktop/testing/test3_4.py", line 61, in <module>
    doScoreDB(scoredb)
  File "/Users/spectator/Desktop/testing/test3_4.py", line 46, in doScoreDB
    showScoreDB(scdb, sortKey)
  File "/Users/spectator/Desktop/testing/test3_4.py", line 54, in showScoreDB
    for p in sorted(scdb, key=lambda person: person[keyname]):
  File "/Users/spectator/Desktop/testing/test3_4.py", line 54, in <lambda>
    for p in sorted(scdb, key=lambda person: person[keyname]):
KeyError: 'name'

Process finished with exit code 1
|
```


show 다음 parse[1]에
'Name' 이외의 명령 시 오류

예외처리 – show

```
elif parse[0] == 'show':  
    if len(parse) <= 2:  
        try:  
            sortKey = 'Name' if len(parse) == 1 else parse[1]  
            if len(scdb) == 0:  
                print("DB is empty")  
            else:  
                showScoreDB(scdb, sortKey)  
        except KeyError:  
            print("Input right key")  
    else:  
        print("Please rewrite properly")  
        print("Example: show Age")
```

기능개선

```
/Library/Frameworks/Python.framework/Versions/3.6/bin/python3.6
Open DB: test3_4.dat
Score DB > show Age
Age=18 Name=Lee Score=91
Age=18 Name=Choi Score=84
Age=19 Name=Kim Score=95
Age=23 Name=Park Score=79
Score DB > show Name
Age=18 Name=Choi Score=84
Age=19 Name=Kim Score=95
Age=18 Name=Lee Score=91
Age=23 Name=Park Score=79
Score DB > show Score
Age=23 Name=Park Score=79
Age=18 Name=Choi Score=84
Age=18 Name=Lee Score=91
Age=19 Name=Kim Score=95
Score DB >
```



```
/Library/Frameworks/Python.framework/Versions/3.6/bin/python3.6
Open DB: test3_4.dat
Score DB > show Name
Name=Choi Age=18 Score=84
Name=Kim Age=19 Score=95
Name=Lee Age=18 Score=91
Name=Park Age=23 Score=79
Score DB > show Age
Age=18 Name=Lee Score=91
Age=18 Name=Choi Score=84
Age=19 Name=Kim Score=95
Age=23 Name=Park Score=79
Score DB > show Score
Score=79 Age=23 Name=Park
Score=84 Age=18 Name=Choi
Score=91 Age=18 Name=Lee
Score=95 Age=19 Name=Kim
Score DB >
```

기능개선

```
/Library/Frameworks/Python.framework/Versions/3.6/bin/python3.6
Open DB: test3_4.dat
Score DB > show Name
Name=Choi Age=18 Score=84
Name=Kim Age=19 Score=95
Name=Lee Age=18 Score=91
Name=Park Age=23 Score=79
Score DB > show Age
Age=18 Name=Lee Score=91
Age=18 Name=Choi Score=84
Age=19 Name=Kim Score=95
Age=23 Name=Park Score=79
Score DB > show Score
Score=79 Age=23 Name=Park
Score=84 Age=18 Name=Choi
Score=91 Age=18 Name=Lee
Score=95 Age=19 Name=Kim
Score DB >
```

```
def showScoreDB(scdb, keyname):
    for p in sorted(scdb, key=lambda person: person[keyname]):
        print(keyname + "=" + str(p[keyname]), end=' ')
        for attr in sorted(p):
            if attr != keyname:
                print(attr + "=" + str(p[attr]), end=' ')
        print()
```

| 감사합니다