(1 번)

Visual Studio Code 실행 시 '관리자 권한으로 실행'으로 할 것.

```
file = open('d:\\test.txt', 'w')
file.write('안녕')
file.close()

##########################################

file = open('d:\\test.txt', 'r')
line = file.read()
print(line)
file.close()

##########################################

with open('d:\\test.txt', 'r') as file:
    print(file.read())
```

(2번)

```
lines = ["we'll find a way we always have - Interstellar\n",
         "I'll find you and I'll kill you - Taken\n",
         "I'll be back - Terminator 2\n"]

with open('d:\\movie_quotes1.txt', 'w') as file:
    for line in lines:
        file.write(line)

with open('d:\\movie_quotes2.txt', 'w') as file:
    file.writelines(lines)
```

(3번)

```
with open('d:\\movie_quotes1.txt', 'r') as file:
    line = file.readline()
    while line != '':
        print(line, end='') #print(line)
        line = file.readline()
print("#" * 60)
with open('d:\\movie_quotes2.txt', 'r') as file:
    lines = file.readlines()
    line = ''
    for line in lines:
        print(line, end='')
```

(추가자료 1)

```
class open2():
    def __init__(self,path):
        print('초기화')
        self.file = open(path)

    def __enter__(self):
        print('엔터')
        return self.file

    def __exit__(self, ext, exv, trb):
        print("탈출")
        self.file.close()
        return True

with open2("test.txt") as file :
    s = file.read()
    print(s)
```

(추가자료 2)

```
from contextlib import contextmanager

@contextmanager
def open3(path):
    file = open(path)
    try :
        yield file
    finally :
        file.close()

with open3("test.txt") as file:
    print(file.read())
```

(추가자료 3 – strip() / split())

student.py

```
class Student :
    def __init__(self, num, name, score) :
        self.number = num
        self.name = name
        self.score = score
```

score_input.py

```
from student import Student

students = []
print("3 명의 성적을 입력하세요.")
for i in range(3):
    print("{0}번 학생 정보와 성적을 입력하세요".format(i+1))
    number = input("학번:");name = input("이름:");score= int(input("성적:"))
    students.append(Student(number, name, score))

with open('d:\\students.txt', 'w') as file:
    for stu in students :
        file.write("{0},{1},{2}\n".format(stu.number, stu.name, stu.score))
```

score_output.py

```
from student import Student

students = []
with open('d:\\students.txt', 'r') as file:
    for line in file :
        stuline = line.rstrip().split(',')
        name = None ; number = None ; score = None
        for i in range(len(stuline)):
            if i == 0 : number = stuline[i]
            elif i == 1 : name = stuline[i]
            elif i == 2 : score = int(stuline[i])

        if name != None and number !=None and score != None :
            students.append(Student(number,name,score))

for s in students : print(s.number, s.name, s.score)
```

(추가자료 4 – pickle 의 dump() / load())

student.py

```
class Student :
    def __init__(self, num, name, score) :
        self.number = num
        self.name = name
        self.score = score
```

object_input.py

```
import pickle
from student import Student

students = []

print("3 명의 성적을 입력하세요.")
for i in range(3):
    print("{0}번 학생 정보와 성적을 입력하세요".format(i+1))
    number = input("학번:")
    name = input("이름:")
    score = int(input("성적:"))

    students.append(Student(number, name, score))

with open('d:\\students.dat', 'wb') as file:
    pickle.dump(students, file)
```

object_output.py

```
import pickle
from student import Student

students = []

with open('d:\\students.dat', 'rb') as file:
    students = pickle.load(file)

for s in students :
    print(s.number, s.name, s.score)
```