```
7-1.py - C:₩Users₩mandu₩Desktop₩스언어숙제4₩7-1.py (3.11.5)
File Edit Format Run Options Window Help
# 7-1
class Rectangle:
    def __init__(self, w=1, h=2):
        self.width = w
        self.height = h
     def getArea(self):
    return self.width * self.height
      def getPerimeter(self):
    return 2 * (self.width + self.height)
r1 = Rectangle(4, 10)
r2 = Rectangle(3.5, 35.7)
print("r1: 폭 {0}, 높이 {1}, 넓이 {2}, 둘레 {3}".format(
r1.width, r1.height, r1.getArea(), r1.getPerimeter()))
print("r2: 폭 {0}, 높이 {1}, 넓이 {2}, 둘레 {3}".format(
r2.width, r2.height, r2.getArea(), r2.getPerimeter()))
 PiDLE Shell 3.11.5
File Edit Shell Debug Options Window Help
      Python 3.11.5 (tags/v3.11.5:cce6ba9, Aug 24 2023, 14:38:34) [MSC v.1936 64 bit AMD64)] on win32 
Type "help", "copyright", "credits" or "license()" for more information.
      ======= RESTART: C:#Users\mandu\Desktop\스언어숙제4\7-1.py =====
      =====
r1: 폭 4, 높이 10, 넓이 40, 둘레 28
r2: 폭 3.5, 높이 35.7, 넓이 124.95000000000002, 둘레 78.4
7-2.
 7-2.py - C:₩Users₩mandu₩Desktop₩스언어숙제4₩7-2.py (3.11.5)
File Edit Format Run Options Window Help
# 7-2
class Stock:
    def __init__(self, s, n, p, c):
        self.__symbol = s
        self.__name = n
        self.__previousClosingPrice = p
        self.__currentPrice = c
      def getName(self):
             return self.__name
      def getSymbol(self):
            return self.__symbol
      def getCP(self):
             return self.__currentPrice
      def getPCP(self):
             return self.__previousClosingPrice
      def setCP(self, cp):
            self.__currentPrice = cp
      def getPCP(self, pcp):
            self.__previousClosingPrice = pcp
      def getChangePercent(self):
    n = (self.__currentPrice - self.__previousClosingPrice)
    return 100 * n / self.__previousClosingPrice
s = Stock("INTC", "Intel Corporation", 20500, 20350)
print("{아의 가격변동률: {1:.2f}".format(s.getName(), s.getChangePercent()) )
 iDLE Shell 3.11.5
 File Edit Shell Debug Options Window Help
      Python 3.11.5 (tags/v3.11.5:cce6ba9, Aug 24 2023, 14:38:34) [MSC v.1936 64 bit AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more information.
>>>
       Intel Corporation의 가격변동률: -0.73
```

```
7-4.py - C:₩Users₩mandu₩Desktop₩스언어숙제4₩7-4.py (3.11.5)
                                                                                                                                                                                                                                                                                                                                                                                                                                                          \times
    File Edit Format Run Options Window Help
   SLOW = 1
   MEDIUM = 2
  FAST = 3
  class Fan:
                      def __init__(self, s = SLOW, r = 5, c = 'blue', o = False):
    self.__speed = s
    self.__on = o
    self.__radius = r
    self.__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__self__s
                                              self.__color = c
                       def setSpeed(self, s):
                     def setSpeed(self, s):
    self.__speed = s
def getSpeed(self):
    return self.__speed
def setOn(self, o):
    self.__on = o
def getOn(self):
                       return self._on
def setRad(self, r):
                      self._radius = r

def getRad(self):

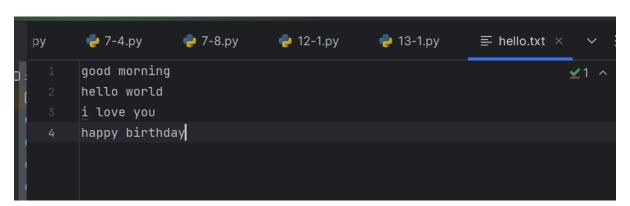
    return self._radius

def setColor(self, c):
                       self.__color = c
def getColor(self):
    return self.__color
f1 = Fan(FAST, 10, 'yellow', True)
f2 = Fan(MEDIUM)
print('f1 - 속도 {0}, 반지름 {1}, 색상 {2}, 전원 {3}'.format(
f1.getSpeed(), f1.getRad(), f1.getColor(), f1.getOn()))
print('f2 - 속도 {0}, 반지름 {1}, 색상 {2}, 전원 {3}'.format(
f2.getSpeed(), f2.getRad(), f2.getColor(), f2.getOn()))
    IDLE Shell 3.11.5
                                                                                                                                                                                                                                                                                                                                                                                                                                        П
   File Edit Shell Debug Options Window Help
                       Python 3.11.5 (tags/v3.11.5:cce6ba9, Aug 24 2023, 14:38:34) [MSC v.1936 64 bit AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
                       = RESTART: C:\Users\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\unders\un
 7-8.
    7-8.py - C:₩Users₩mandu₩Desktop₩스언어숙제4₩7-8.py (3.11.5)
                                                                                                                                                                                                                                                                                                              - □ ×
   File Edit Format Run Options Window Help
   # 7-8
from time import *
  class StopWatch:
    def __init__(self):
        self.__startTime = time()
                     def start(self)
                                       self.__startTime = time()
                    def stop(self):
    self.__endTime = time()
                     def getElapsedTime(self):
    return int((self.__endTime - self.__startTime) * 1000)
   sum = 0
    s = StopWatch()
for i in range(1, 1000001):
    sum += i
  s.stop()
print("실행시간: {0}".format(s.getElapsedTime()))
      IDLE Shell 3.11.5
    File Edit Shell Debug Options Window Help

Python 3.11.5 (tags/v3.11.5:cce6ba9, Aug 24 2023, 14:38:34) [MSC v.1936 64 bit AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
                      = PESTART: C:#Users\mandu\Desktop\스언어숙제4#7-8.py
실행시간: 363
```

12-1.

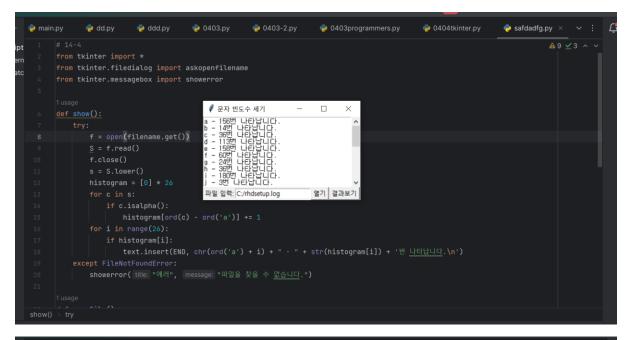
13-1.

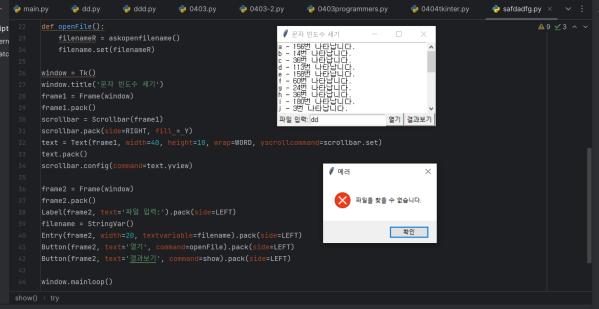


13-2.

```
<mark> 13-2.py</mark> ×
               🦆 7-8.py
                           🥏 12-1.py
                                        🥏 13-1.py
                                                                            ▲1 ★2 ^ ∨
 > 🛅
            f = open(s, "r")
            c = f.read()
            c_cnt = len(c)
            w_cnt = len(c.split())
           l_cnt = c.count("\n") + 1
            print("문자 {0} 개 \n단어 {1} 개 \n행 {2} 개".format( *args: c_cnt, w_cnt, l_cnt))
   ?
Run
      ₱ 13-2 ×
G ■ | :
    C:\Users\mandu\Desktop\스언어숙제4\venv\Scripts\python.exe C:\Users\mandu\Desktop\스언어숙제
    파일이름을 입력하세요: hello.txt
    문자 43 개
Process finished with exit code 0
```

14-4.





14-5.

