1. FIND THE NUMBER

Evidence of code coverage and achieving code coverage. (96%)

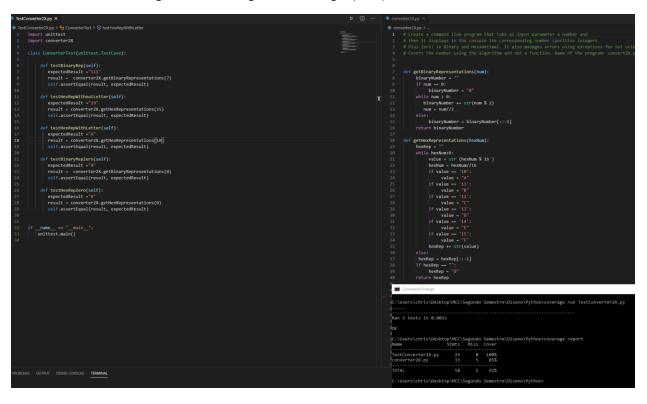
```
findNumberTest.py X findNumber.py
                                                                                       Command Prompt
                                                                                      .result:
Sorry, too low, attempt:
        import unittest
        import findNumber
                                                                                      Congrats!!!! you won
   4 ∨ class findNumberTest(unittest.TestCase):
                                                                                     Ran 3 tests in 0.009s
                  expectedMsg ="Congrats!!!! you won"
result = findNumber.findNumber(15, 15)
print("result:\n"+result)
                                                                                     C:\Users\chris\Desktop\MCC\Segundo Semestre\Diseno\Python>coverage report
Name Stmts Miss Cover
                   self.assertEqual(result, expectedMsg)
                                                                                     findNumber.py 36 8 78%
findNumberTest.py 27 5 81%
                def testGivesLowerNumber(self):
                  expectedMsg ="Sorry, too low, attempt: '
result = findNumber.findNumber(25, 5)
print("result:\n"+result)
                                                                                     C:\Users\chris\Desktop\MCC\Segundo Semestre\Diseno\Python>coverage run findNumberTest.py
                                                                                     28
result:
                   self.assertEqual(result, expectedMsg)
                                                                                     Sorry too high attempt:
.result:
                def testGivesHigherNumber(self):
                                                                                     Sorry, too low, attempt: .result:
                  expectedMsg ="Sorry too high attempt: "
result = findNumber.findNumber(10, 30)
                                                                                     .result:
Congrats!!!! you won
..C:\Users\chris\Desktop\MCC\Segundo Semestre\Diseno\Python\findNumberTest.py:31: DeprecationWarning: Please use assert
                   print("result:\n"+result)
                   self.assertEqual(result, expectedMsg)
                                                                                     ..C:\Users\cni2\usertop\wc\segundo Semestre\Diseno\Pytnon\rindnummer!est.py:31: Deprecationwarning: Please use asserte
qual instead.
self.assertEquals(i,11)
.C:\Users\chirs\Desktop\Wc\Segundo Semestre\Diseno\Python\findNumber.py:52: ResourceWarning: unclosed file <_io.TextIOw
rapper name='D:\\GuessingSteps.txt' mode='w' encoding='cp1252'>
print(logs, file=open(path, 'w'))
ResourceWarning: Enable tracemalloc to get the object allocation traceback
                def testValidateGuessInput(self):
                   input = findNumber.validateGuessInput("5")
                   self.assertIsInstance(input,int)
                                                                                     Ran 6 tests in 0.015s
                   i = findNumber.incrementNumTries(i)
                   self.assertEquals(i,11)
               def testValidateSavingLogs(self):
                                                                                     C:\Users\chris\Desktop\MCC\Segundo Semestre\Diseno\Python>coverage report
Name Stmts Miss Cover
  PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                      findNumber.py
findNumberTest.py
                                                                                                                    36 3 92%
33 0 100%
                                                                                     C:\Users\chris\Desktop\MCC\Segundo Semestre\Diseno\Python>
```



```
findNumberTest.py X
findNumberTest.py > ...
      import findWords
         def testBinaryRep(self);
              expectedResult = "111"
              result = findWords.getBinaryRepresentations(7)
self.assertEqual(result, expectedResult)
          def testHexRep(self);
              expectedResult = "19"
              result = findWords.getHexRepresentations(25)
               self.assertEqual(result, expectedResult)
          def testBinaryRepZero(self):
    expectedResult = "0"
              result = findWords.getBinaryRepresentations(θ)
               self.assertEqual(result, expectedResult)
          def testHexRepZero(self):
    expectedResult = "0"
              result = findWords.getHexRepresentations(0)
               self.assertEqual(result, expectedResult)
    if __name__ == "__main__":
    unittest.main()
```

2. CONVERTER

Evidence of code coverage and achieving code coverage. (91%)



```
TestConverter2X.py
      import converter2X
  6      def testBinaryRep(self);
▲ TestConverter2X.py 1 of 13 problems
trailing whitespace pycodestyle(W291)
              expectedResult = "111"
              result = converter2X.getBinaryRepresentations(7)
              self.assertEqual(result, expectedResult)
           def testHexRepWithoutLetter(self):
              expectedResult = "19"
              result = converter2X.getHexRepresentations(25)
              self.assertEqual(result, expectedResult)
          def testHexRepWithLetter(self):
              expectedResult = "A"
              result = converter2X.getHexRepresentations(10)
              self.assertEqual(result, expectedResult)
          def testBinaryRepZero(self);
              expectedResult = "0"
              result = converter2X.getBinaryRepresentations(0)
              self.assertEqual(result, expectedResult)
          def testHexRepZero(self);
              expectedResult = "0"
              result = converter2X.getHexRepresentations(0)
              self.assertEqual(result, expectedResult)
      if <u>__name__</u> == "__main__":
          unittest.main()
```

Warning message because of trailing whitespaces. pycodestyle(W291).

There should be no whitespace after the final character in a line.

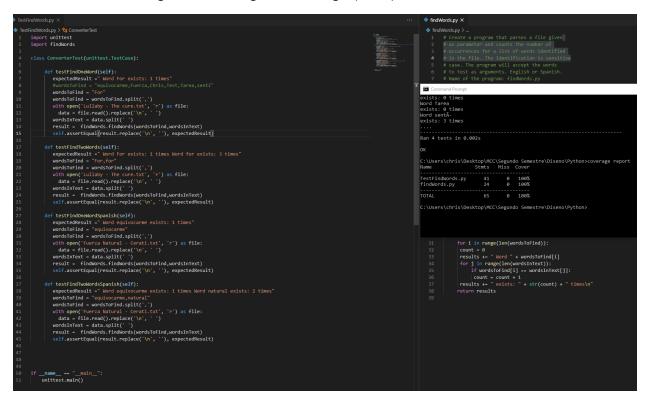
Anti-pattern

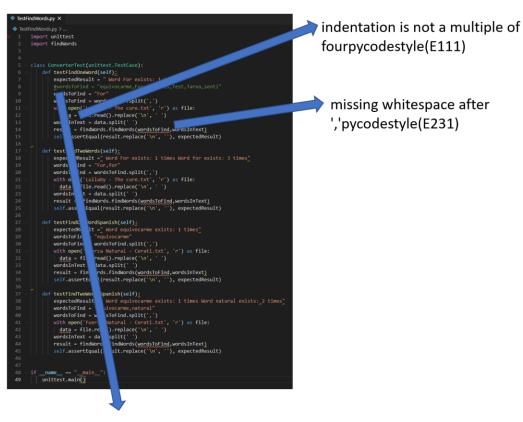
Note: The • character represents a space.

```
def first_func():
    # The line below has two spaces after its final character
    pass...
```

3. Find Words.

Evidence of code coverage and achieving code coverage. (100%)



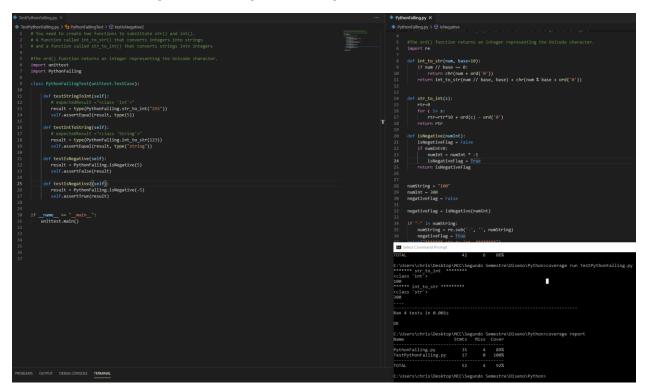


block comment should start with '# 'pycodestyle(E265)

```
TestFindWords.py •
TestFindWords.py >
     import findWords
         def testFindOneWord(self);
            wordsToFind = "For"
               data = file.read().replace('\n', ' ')
             wordsInText = data.split(' ')
            result = findWords.findWords(wordsToFind, wordsInText)
         def testFindTwoWords(self);
             expectedResult =" Word For exists: 1 times Word for exists: 3 times"
             wordsToFind = "For, for
             wordsInText = data.split(' ')
             result = findWords.findWords(wordsToFind, wordsInText)
             self.assertEqual(result.replace('\n', ''), expectedResult)
         def testFindOneWordSpanish(self);
             expectedResult =" Word equivocarme exists: 1 times"
             wordsToFind = "equivocarme
             wordsInText = data.split(' ')
             result = findWords.findWords(wordsToFind, wordsInText)
             self.assertEqual(result.replace('\n', ''), expectedResult)
         def testFindTwoWordsSpanish(self);
            expectedResult = Word equivocarme exists: 1 times Word natural exists: 2 times
wordsToFind = "equivocarme, natural"
             wordsToFind = wordsToFind.split(',')
             result = findWords.findWords(wordsToFind, wordsInText)
             self.assertEqual(result.replace('\n', ''), expectedResult)
         unittest.main()
```

4. Python Failing

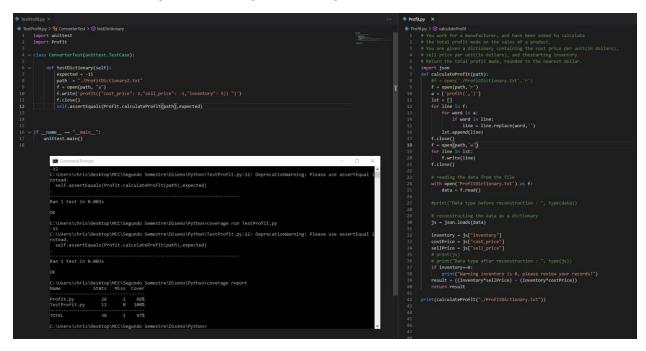
Evidence of code coverage and achieving code coverage. (92%)



Pep8 were like previous one's findings. Here is the corrected version.

5. Profit

Evidence of code coverage and achieving code coverage. (97%)



Pep8 were like previous one's findings. Here is the corrected version.

```
TestProfit.py X

TestProfit.py > ConverterTest

import unittest

import Profit

class ConverterTest(unittest.TestCase):

def testDictionary(self):
    expected = -15
    path = "./ProfitDictionary2.txt"
    f = open(path, "a")
    f.write('profit({"cost_price": 2,"sell_price": -1,"inventory": 5}) ")')

f.close()
    self.assertEquals(Profit.calculateProfit(path)_expected)

if __name__ == "__main__":
    unittest.main()
```

6. Agenda (99%)

```
Agenda.py X
 p1.addPerson()
                                                                                                                                                                                                                                                                                                            import fileinput
                                                                                                                                                                                                                                                                                                            import time
                                                                                                                                                                                                                                                                                                  11 import os
                            self.assertEqual(data, expectedResult)
                                                                                                                                                                                                                                                                                                             def __init__(self, name, email, age, country):
                    def testGetAllRecords(self):
                                                                                                                                                                                                                                                                                                                    self.name = name
                                                                                                                                                                                                                                                                                                                   self.email = email
                           p1 = Agenda.Person("Jorge","jorge@email.test","32", "Jamaica")
                            p1.addPerson()
                                                                                                                                                                                                                                                                                                                   self.country = country
                            p1 = Agenda.Person("Miguel", "miguel@email.test", "17", "Honduras")
                            p1.addPerson()
                                                                                                                                                                                                                                                                                                              def addPerson(self):
                            data = p1.getAllRecords()
                                                                                                                                                                                                                                                                                                                      record = self.name + "," + self.email + "," + self.age + "," + self.country
#f = open(record, "D:\\myAgenda.txt", "w")
                            self.assertEqual(data.replace('\n', ''), expectedResult)
                                                                                                                                                                                                                                                                                                                      print(record, file=open('D:\\myAgenda.txt', 'a'))
                    def testSearchRecords(self):
                          p1 = Agenda.Person("Jorge","jorge@email.test","32", "Jamaica")
expectedResult = "Jorge,Jorge@email.test,32,Jamaica"
line = p1.searchRecord("Jorge")
                                                                                                                                                                                                                                                                                                              def getAllRecords(self):
                            self.assertEqual(line.replace('\n', ''), expectedResult)
                                                                                                                                                                                                                                                                                                                      with open('D:\\myAgenda.txt', 'r') as f:
                                                                                                                                                                                                                                                                                                                        content = f.read()
                    def testDeleteRecord(self);
                                                                                                                                                                                                                                                                                                                        print(content)
                           open('D:\\myAgenda.txt', 'w').close()
                            p1 = Agenda.Person("Jorge","jorge@email.test","32", "Jamaica")
                           p1.addPerson()
                           p1 = Agenda.Person("Jorge","jorge@email.test","32", "Jamaica")
expectedResult = "Jorge,jorge@email.test,32,Jamaica"
   PROBLEMS 135 OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                                                                                                                                                                                           ON C
PS C:\Users\chris\Desktop\WCC\Segundo Semestre\Diseno\Python\ c:; cd 'c:\Users\chris\Desktop\WCC\Segundo Semestre\Diseno\Python\ conding='cpl252'>
Hello!
Type an action to start!

1: Add Contact

PS C:\Users\chris\Desktop\WCC\Segundo Semestre\Diseno\Python\ conding='cpl252'>
print(record, file=open('D:\\munk\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\chris\Desktop\Users\ch
1: Add Contact
                                                                                                                                                                                                                                                                                           ='D:\\myAgenda.txt' mode='r' encoding='cp1252'>
fiIn = open('D:\\myAgenda.txt').readlines()
2: Delete
  3: Search by email or age
  s. search by email of age
4: Return all records
4: Return all records
7. Search by email of age
8. ResourceWarning: Enable tracemalloc to get the object allocation traceback
c:Users\chris\DesktopWc(\Segundo Semestre\Diseno\Python\Agenda.py:25: ResourceWarning: unclosed file <_io.TextIOWrapper name='D:\\myAgenda.txt' mode='a' encot
niguel, miguel@email.test,17, Honduras
print(record, file-open('D:\\myAgenda.txt', 'a'))
 4: Return all records
   print(record, file=open('D:\\myAgenda.txt', 'a'))
 ResourceWarning: Enable tracemallor to get the object allocation traceback
.c:\Users\chris\Desktop\MCC\Segundo Semestre\Diseno\Python\Agenda.py:37: ResourceWarning: unclosed file <_io.TextIOWrapper name="D:\\myAgenda.txt" mode="r" enco
                                                                                                                                                                                                                                                                                           .Jorge,jorge@email.test,32,Jamaica
   fiIn = open('D:\\myAgenda.txt').readlines()
 ResourceManning: Enable tracemallor to get the object allocation traceback
.Jorge,jorge@email.test,32,Jamaica
Miguel,miguel@email.test,17,Honduras
                                                                                                                                                                                                                                                                                          Ran 4 tests in 0.011s
   .Jorge,jorge@email.test,32,Jamaica
                                                                                                                                                                                                                                                                                          C:\Users\chris\Desktop\MCC\Segundo Semestre\Diseno\Python>coverage report
                                                                                                                                                                                                                                                                                                                          Stmts Miss Cover
                                                                                                                                                                                                                                                                                                                                               1 97%
0 100%
                                                                                                                                                                                                                                                                                           Agenda.py
  Ran 4 tests in 0.027s
                                                                                                                                                                                                                                                                                           TestAgenda.py
                                                                                                                                                                                                                                                                                          C:\Users\chris\Desktop\MCC\Segundo Semestre\Diseno\Python>
```



Line lengths are recommended to be no greater than 79 characters. The reasoning for this comes from PEP8 itself:

Limiting the required editor window width makes it possible to have several files open side-by-side, and works well when using code review tools that present the two versions in adjacent columns.

It is fairly common for developers, especially those in closed-source projects, to change the maximum line length to 100 or 120 characters.

Additional links

• https://www.python.org/dev/peps/pep-0008/#maximum-line-length