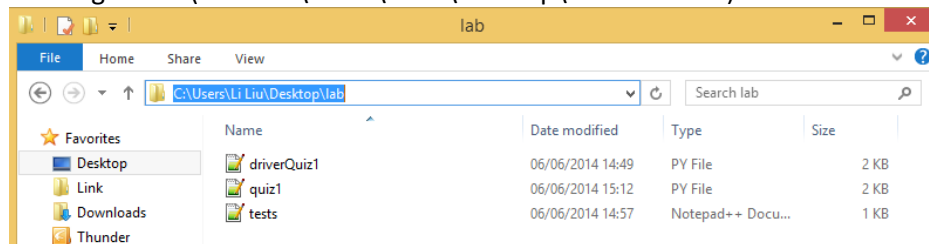


# Coding assignment submission instruction

You have to complete these steps:

- (1) Download all files here (quiz1.py, driverQuiz1.py, tests.txt this time), put them in your working folder (I use "C:\Users\Li Liu\Desktop\lab" this time)
- (2) Complete the program to do the task (quiz1.py this time), you will see the instruction as comment in that file
- (3) Run the test program (driverQuiz1.py this time) in cmd/terminal
- (3-1) If your program crashes, you should correct the bug
- (3-2) If your program fail to pass all the test cases, you should correct it as well
- (4) Submit the snapshot of your cmd/terminal to Blackboard

(1) Download all files here (quiz1.py, driverQuiz1.py, tests.txt this time), put them in your working folder (I use "C:\Users\Li Liu\Desktop\lab" this time)



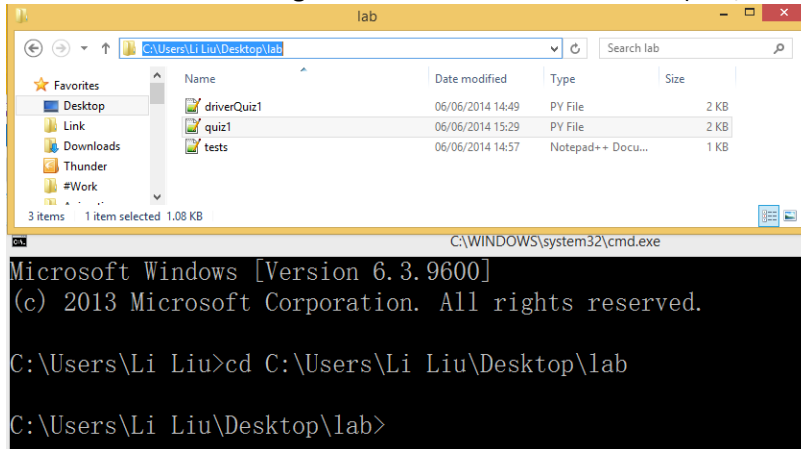
(2) Complete the program to do the task (quiz1.py this time), you will see the instruction as comment in that file

```
12
13 def sum_three_digit(num):
14
15     # YOUR CODE GOES BELOW HERE
16
17     # You only need to complete lines 21 and 25 to do the required tasks,
18     # or you can start from scratch and change line 23 and 27 as well
19
20     # Get the digit in hundreds position, 1 if num = 123
21     hundreds =
22     # Get the digit in tens position, 2 if num = 123
23     tens = num // 10 % 10
24     # Get the digit in units position, 3 if num = 123
25     units =
26     # Add them together, and evaluate it to 'sum', 6 if num = 123
27     sum = hundreds + tens + units
28
29     # DO NOT WRITE CODE BELOW THIS LINE
```

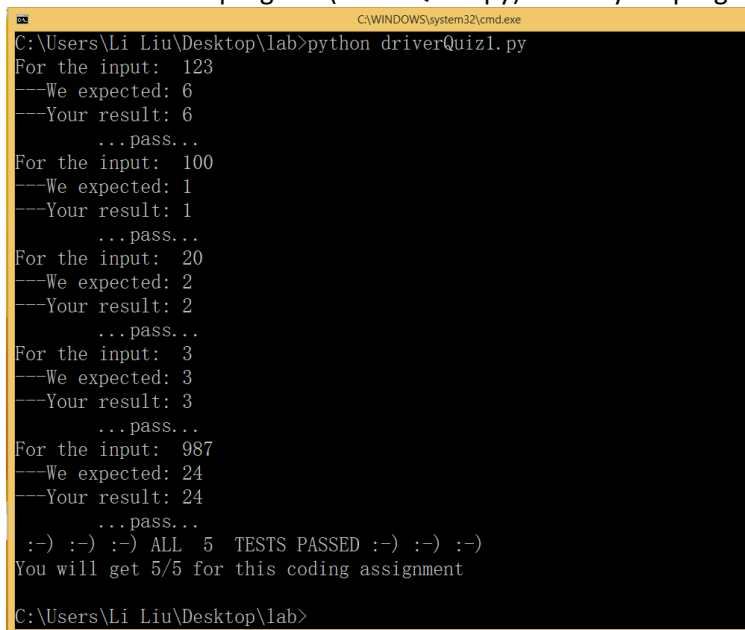
Make sure you saved the file after completion of the program.

(3) Run the test program (driverQuiz1.py this time) in cmd/terminal

Recall the snapshot you took for project 1, we will run your program in similar way this time. First we will use cmd to go to the folder the files located (“C:\Users\Li Liu\Desktop\lab” for me)

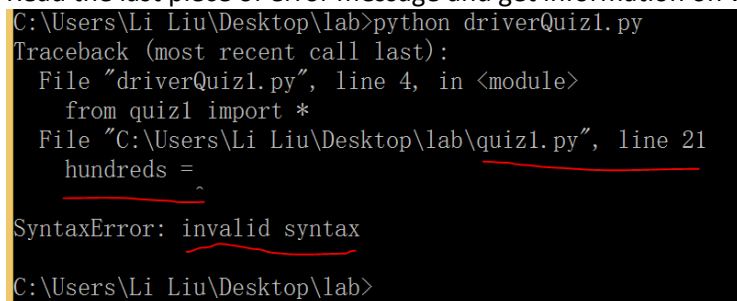


Then run the test program (driverQuiz1.py) to test your program (quiz1.py)



(3-1) If your program crashes, you should correct the bug

Read the last piece of error message and get information on why your program crash



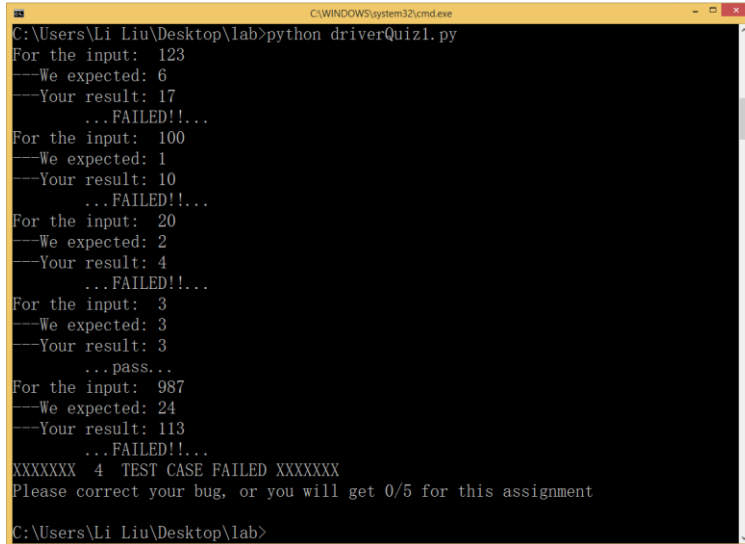
This example means several things

- A. The error happens in line 21 in file 'quiz1.py', the contents of that line is "hundreds = "
- B. The error is "SyntaxError: invalid syntax"

Based on what we learned for Python syntax, since it is illegal to leave the right side of '=' empty in Python, this line "hundreds =" report an error, you have to write a formula calculating the digit of num's hundreds position after this '='.

(3-2) If your program fail to pass all the test cases, you should correct it as well

The printing message tell you on running which test cases your program goes wrong.



```
C:\WINDOWS\system32\cmd.exe
C:\Users\Li Liu\Desktop\lab>python driverQuiz1.py
For the input: 123
--We expected: 6
--Your result: 17
...FAILED!...
For the input: 100
--We expected: 1
--Your result: 10
...FAILED!...
For the input: 20
--We expected: 2
--Your result: 4
...FAILED!...
For the input: 3
--We expected: 3
--Your result: 3
...pass...
For the input: 987
--We expected: 24
--Your result: 113
...FAILED!...
XXXXXXXX 4 TEST CASE FAILED XXXXXXXX
Please correct your bug, or you will get 0/5 for this assignment
C:\Users\Li Liu\Desktop\lab>
```

For this example, 4 test cases fail.

Above the first '...FAILED!...', you will know that your calculation for num = 123 is wrong. You are expected to give sum a value 6, but your program give it a value 17.

(4) Submit the snapshot of your cmd/terminal to Blackboard

After you pass all test cases, you should submit the snapshot of your cmd/terminal to Blackboard under this coding assignment like what I showed you in previous lab.