

Quiz 7

Name: _____

1. Examine each of the following snippets of code and list the output expected. Write '- error -' if you think the code will crash (i.e. raise an error) during execution. Write '- nothing -' if you think the code will not produce any output.

Code	Output
<pre># Part 1 students = [('Alwyn', 12), ('Tim', 12)] students[0][0] = 'Bill' print(students)</pre>	<p>-error-</p>
<pre># Part 2 words = [7, 1, 2, 5, 9] print(words[-3:])</pre>	<p>[2,5,9]</p>
<pre># Part 3 words = [4, 2] copy = words copy.append(3) print(words) print(copy)</pre>	<p>[4,2,3] [4,2,3]</p>
<pre># Part 4 def do_something(numbers): numbers += [4, 5] numbers = [3] do_something(numbers) print(numbers)</pre>	<p>[3,4,5]</p>
<pre># Part 5 numbers = [1, 2] letters = ['a'] numbers.append(letters) print(numbers)</pre>	<p>[1,2,'a']</p>
<pre># Part 6 point = (1,1) coords = [point, (-1, 3)] point = (5,6) print(coords)</pre>	<p>[(1,1), (-1,3)]</p>

2. Complete the program so that it prints the following output. For each number in the list,
- if it is a multiple of three, print "fizz",
 - if it is a multiple of five, print "buzz",
 - if it is a multiple of 3 and 5, print "fizzbuzz".
 - Otherwise, print the number.

```
2
buzz
fizz
11
---
fizzbuzz
13
buzz
fizz
7
buzz
```

```
# complete the code below
def fizzbuzz(num_list):
    for n in num_list:
        if n % 15 == 0:
            print("fizzbuzz")
        elif n % 5 == 0:
            print("buzz")
        elif n % 3 == 0:
            print("fizz")
        else:
            print(n)
```

```
fizzbuzz([2, 5, 9, 11])
print('---')
fizzbuzz([15, 13, 40, 3, 7, 5])
```

3. The function `substitute` accepts two parameters: `words`(type: list of str), and `to_find`(type: str). If any value in `words` list contains `to_find`, it will replace it with 'XXX'. The output of the program is as follows:

```
D:\is111>python q3.py
word found
['apple', 'orange', 'XXX', 'XXX']
---
word not found
['apple', 'orange', 'pear']
---
word not found
[]
```

```
# Do read the next page first
def substitute(words, to_find):
    found = False
    for i in range(len(words)):
        if to_find == words[i]:
            words[i] = "XXX"
            found = True
    return found
```

```
words = ['apple', 'orange', 'pearl', 'pear']
if substitute(words, 'pear'):
    print('word found')
else:
    print('word not found')
print(words)
print('---')

words = ['apple', 'orange', 'pear']
if substitute(words, 'durian'):
    print('word found')
else:
    print('word not found')
print(words)
print('---')

words = []
if substitute(words, 'durian'):
    print('word found')
else:
    print('word not found')
print(words)
```