



test2-300-2

CSC110Y1F , Fall 2022

Term Test 2

1. [9 marks] Short answer.

- (a) [3 marks] Each of the following interactions in the Python console ends with an expression or statement and blank space. For each one, write the value that would be displayed, or NOTHING if nothing would be displayed. *If evaluating the code would cause an error, write ERROR and briefly explain why the error would occur.*

```
>>> words = ['halloween', 'candy', 'from', 'teachers']  
>>> words[1][0] + words[0][1] + words[3][0]
```

cat

```
>>> x = {1, 2, 3}  
>>> y = {1, 2, 3}  
>>> x is y
```

False

(might be true if we consider automatic aliasing)

```
>>> my_list = [2, 1, 4]  
>>> my_list2 = list.sort(my_list)  
>>> my_list2 == [1, 2, 4]
```

False

```
>>> my_tuple = (1, 2, 3)  
>>> my_tuple[0] = 10
```

ERROR: tuples are immutable data types

```
>>> import math  
>>> math.gcd(-15, 0) # math.gcd(m, n) returns the greatest common divisor of m and n
```

15

```
>>> a = 10  
>>> a, b = 2 * a, 3 * a  
>>> b
```

30