## Week 4 Discussion Worksheet

1. Given the following code:

2.

```
def indexer(item, index, new_val):
    """
    Function to assign a new value to an iterable
    item at a specific index.

args:
        item (iterable): iterable object to be manipulated
        index (int): int representing index of iterable
        new_val (any): item to be assigned to index.

returns:
        None
    """
    item[index] = new_val
    return
```

What is the result of running: indexer('star wars', 2, '@') ? Explain why.

4.

```
def string_comparer(lst, comparer):
    Write a function that counts the number of equivalent strings in a list.
    Requirement: 1 line list comp

Args:
        lst (list): list of strings to be considered
        comparer (str): string to be considered
Returns:
        The number of equivalent elements
Throws:
        AssertionError: if lst is not a list
        AssertionError: if comparer is not a string
        AssertionError: if there are non-strings in lst

>>> test(['good', 'luck', 'on', 'mt', 'luck'], 'luck')
2
>>> test([], 'lol')
0
"""
```

```
def process_file(file_path, sub):
    """
    Write a function that processes a file by replacing each instance of a specified string with another
    and returns the number of substitutes that occur as well as the corrected file content.

args:
    file_path (str): filepath for relevant file
    sub (tup): tuple representing (target, replacement)
        target(str): target to be replaced
        replacement(str): replacement value

returns:
    the number of substitutes made during processing

raises:
    AssertionError: if file_path is not a string
    AssertionError: if sub is not a tuple
    AssertionError: if either element of sub is not a str

>>> process_file('files/review.txt', ('hard', 'easy'))
    ("DSC20 is so easy. It's probably the easyest class I've taken! I have so many easy classes this quarter. ",
    3)
    """
```