COSC 101: Spring 2018
Lecture 17: Dictionaries

1) a. What is the output of the following statements?

```python
book2 = {}
book2['title'] = 'Lucky'
book2['author'] = 'Alice Sebold'
book2['case_copies'] = 1
book2['cooley_copies'] = 1
book2['pace_copies'] = 1
print(book2)
print(book2['case_copies'])
```

b. What is the output of the following statements?

```python
book1 = {'title':'The Sixth Extinction',
         'author': 'Elizabeth Kolbert',
         'case_copies': 2, 'cooley_copies': 1,
         'pace_copies': 1}
print(book1['author'])
```

c. If CASE library buys two more copies of ‘The Sixth Extinction’ how do we update the entry for that title?
d. Assume the statements in both parts a. and b. have been executed. What is the output of the following statements?

```python
collection = [book1, book2]
for book in collection:
    print(book['title'])
```

e. If all the above statements have been executed how do we find out how many titles the library has in its collection?

f. If Colgate no longer participates in interlibrary loan with Pace, how can we remove the copies at Pace library from book1 and book2? There are multiple ways to do this, can you think of at least two?

g. What is the output of the following code?

```python
book1 = {'title': 'The Sixth Extinction',
         'author': 'Elizabeth Kolbert',
         'case_copies': 2, 'cooley_copies': 1,
         'pace_copies': 1}
mykeys = book1.keys()
print(mykeys[1])
```