CSE 160 Section 2 Problems

1. Write the output to the following program:

   ```python
   for i in [1, 2, 3]:
       for j in [1, 2, 3]:
           print(i + j)
   ```

2. Write the output to the following program:

   ```python
   sum = 0
   for i in [1, 2, 3]:
       for j in [1, 2, 3]:
           sum = sum + i
   print(sum)
   ```

3. Fill in the necessary code to count the number of times the letter “l” appears in all of the list words.

   ```python
   words = ["hello", "world", "python", "yellow"]
   l_count = 0

   print(l_count)
   The output should be 5
   ```

4. Write code to print the number of people over 20 years old in the list ages.

   ```python
   ages = [20, 21, 20, 22, 19, 18, 14, 35]
   ```

5. Write code that calculates and prints out the number of people 30 years old and above, the number of people 20-29 years old, and the number of people under 20 years old in the list ages.

   ```python
   ages = [20, 21, 20, 22, 19, 18, 14, 35]
   ```
CSE 160 Section 2 Solutions

1. The output appears below:
   
   2
   3
   4
   3
   4
   5
   4
   5
   6

2. The output appears below:
   
   18

3. 
   ```python
   words = ["hello", "world", "python", "yellow"]
   l_count = 0
   for word in words:
       for letter in word:
           if letter == 'l':
               l_count = l_count + 1
   print(l_count)
   ```

4. 
   ```python
   total = 0
   for age in ages:
       if age > 20:
           total = total + 1
   print(total)
   ```

5. 
   ```python
   thirties = 0
twenties = 0
under_twenty = 0
for age in ages:
    if age >= 30:
        thirties = thirties + 1
    elif age >= 20:
        twenties = twenties + 1
    else:
        under_twenty = under_twenty + 1
print(thirties)
print(twenties)
print(under_twenty)
```
a) What is the topic from this course that you feel the most confused about right now?

b) What is one thing you would change about LECTURE?

c) Have you used CodeStepByStep? Did you find it useful? What tools have you been using to help with Python?