Week 9 - Paper Practice - For Loops

For each of the following snippets of code, execute it by hand. Show exactly what is output by the code.

1. 
   
   ```python
   x = [1, 2, 3]
   for n in x:
       print(2 * n)
   ```

2. 
   ```python
   x = [1, 3, -7, 4, 9, -5, 4]
   for i in range(len(x)):
       if x[i] < 0:
           print(i, " : ", x[i])
   ```

3. 
   ```python
   x = ["first", "second", "third", "fourth"]
   for n in x:
       print(n)
   ```

4. 
   ```python
   import math
   x = [6, 3, 5, 2, 7, 5, 3]
   total = 0
   for i in range(len(x)):
       total = x[i]*x[i] + total
   print("total = ", total, 
   dev = math.sqrt(total)
   print(dev, "\n")
   ```

5. 
   ```python
   x = ["first", "second", "third", "fourth"]
   y = []
   for n in x:
       y.append(n)
   print(y)
   ```