Exercise 12: Practice, practice, practice

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This exercise is to build up your stamina. Throughout the previous exercise you must have grasped a lot of python symbols and syntax, but practice makes a man perfect. So, do the following two exercises. I am assuming that you should not face much problems now as you had faced earlier. So, let's get started.

Exercise 1: Practice 1

1. Create a file called **ex12_1.py** and write the following code in it.

```
print "Let's practice everything."
     print 'You\'d need to know \'bout escapes with \\ that do \n newlines
and \t tabs.'
     poem = """
     \tThe lovely world
     with logic so firmly planted
     cannot discern \n the needs of love
     nor comprehend passion from intuition
     and requires an explanation
     \n\t \ twhere there is none.
     print "- - - - - - - - "
     print poem
     print "- - - - - - - - "
     five = 10 - 2 + 3 - 6
     print "This should be five: %s" % five
     def secret formula(started):
           jelly beans = started * 500
           jars = jelly_beans / 1000
           crates = jars / 100
           return jelly beans, jars, crates
     start point = 10000
     beans, jars, crates = secret formula(start point)
     print "With a starting point of: %d" % start point
     print "We'd have %d beans, %d jars, and %d crates." % (beans, jars,
crates)
     start point = start point / 10
     print "We can also do that this way:"
     print "We'd have %d beans, %d jars, and %d crates." %
secret formula(start point)
```

- 2. Put your comments wherever necessary
- 3. Break the file on purpose, then run it to see what kinds of errors you get. Make sure you can fix it.

Exercise 2: Practice 2

1. Create a file called ex12_2.py and write the following code in it.

```
def break words(stuff):
      """This function will break up words for us."""
     words = stuff.split(' ')
      return words
def sort words(words):
      """Sorts the words."""
      return sorted (words)
def print first word(words):
      """Prints the first word after popping it off."""
     word = words.pop(0)
     print word
def print last word(words):
      """Prints the last word after popping it off."""
      word = words.pop(-1)
     print word
def sort sentence(sentence):
      """Takes in a full sentence and returns the sorted words."""
      words = break words(sentence)
      return sort words (words)
def print first and last(sentence):
      """Prints the first and last words of the sentence."""
      words = break words(sentence)
     print first word(words)
     print last word(words)
def print first and last sorted(sentence):
      """Sorts the words then prints the first and last one."""
      words = sort sentence(sentence)
     print_first_word(words)
     print last word(words)
```

This exercise is a little different. You will not be running the code, instead you will be importing this file in your python command prompt and accessing the various functions that you have created in the file. A simple example will be as follows. Remember to use the file in python command line interpreter only.

```
>>> import ex12_2
>>> sentence = "All good things come to those who wait."
>>> words = ex25.break words(sentence)
```

2. Play around with the different functions and understand how you can create your own python scripts with different functions and can simply import them in another python file or in the command line interpreter. Write a document stating how things are working in this exercise.