Python 3: The Python Environment

Lesson 4, Project 1

Handed in: 4 Jan 2016 08:19:08PM Graded: 5 Jan 2016 01:07:35PM

Here are your instructions:

Create a **Python3\_Homework04** project and assign it to your **Python3\_Homework** working set. In the **Python3\_Homework04/src** folder, create a program named **find\_regex.py** that takes the following text and finds the start and end positions of the phrase, "Regular Expressions."

Text to use in find\_regex.py:

In the 1950s, mathematician Stephen Cole Kleene described automata theory and formal language theory in a set of models using a notation called "regular sets" as a method to do pattern matching. Active usage of this system, called Regular Expressions, started in the 1960s and continued under such pioneers as David J. Farber, Ralph E. Griswold, Ivan P. Polonsky, Ken Thompson, and Henry Spencer.

Your project should meet the following conditions:

* Your code must return 231 as the start and 250 as the end.
* You must include a separate **test\_find\_regex.py** program that confirms that your code functions as instructed.

Submit **find\_regex.py** and **test\_find\_regex.py** when they are working to your satisfaction.

##### **Your Comment:**

*no comment given*

##### **Items Handed In**

* [Open Project Handed In](https://students.oreillyschool.com/student/project/?/.handin/147-6601-1/com.ost.mboyd.147.6601.1.Python3Homework04.zip)

### **Overall Comments:**

Good job.  
  
Another way to format text:  
  
 txt = ("In the 1950s, mathematician Stephan Cole Kleene "  
 "described automata theory and formal "  
 "language theory in a set of models"  
 ... ) etc.  
  
Keep in mind that all Python functions return the None object by default (if nothing else specified) so this:  
  
  
def finder(str, txt):  
 s = re.search(str, txt)  
 if s:  
 return {'start' : s.start(), 'end' : s.end()}  
 else:  
 print("String not found in text")  
 return None  
  
is equivalent to:  
  
def finder(str, txt):  
 s = re.search(str, txt)  
 if s:  
 return {'start' : s.start(), 'end' : s.end()}  
  
Minus the print() but then usually we maybe don't want to use the console for i/o anyway.  
  
  
-Kirby

### **Grade:**

Great