Python 3: The Python Environment

Lesson 6, Project 1

Handed in: 6 Jan 2016 12:21:53PM Graded: 6 Jan 2016 07:41:07PM

Here are your instructions:

Create a **Python3\_Homework06** project and assign it to your **Python3\_Homework** working set. In the **Python3\_Homework06/src** folder, create a program named **ccn\_safety2.py** that duplicates the **ccn\_safety.py** program's functionality, but uses a compiled regular expression to replace the credit card numbers in the paragraph with "CCN REMOVED FOR YOUR SAFETY". Use the following text as a sample:

Text to use in ccn\_safety2.py:

Have you ever noticed, in television and movies, that phone numbers and credit cards  
are obviously fake numbers like 555-123-4567 or 5555-5555-5555-5555? It is because a   
number that appears to be real, such as 1234-5678-1234-5678, triggers the attention of   
privacy and security experts.

Your project should meet the following conditions:

* The program should return this text: "Have you ever noticed, in television and movies, that phone numbers and credit cards are obviously fake numbers like 555-123-4567 or CCN REMOVED FOR YOUR SAFETY? It is because a number that appears to be real, such as CCN REMOVED FOR YOUR SAFETY, triggers the attention of privacy and security experts." Note that phone numbers should not be replaced!
* You should include a **test\_ccn\_safety2.py** program in a separate file that confirms that your code functions as expected.
* You must use the re.VERBOSE flag to properly document each element of the pattern used to identify credit card numbers.

Submit **ccn\_safety2.py** and **test\_ccn\_safety2.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/147-6613-1/com.ost.mboyd.147.6613.1.Python3Homework06.zip)

### **Overall Comments:**

Good job.  
  
Comparaing complete paragraphs, expected versus observed, is encouraged on all projects of this nature.  
  
Why? Because such tests are very fragile and therefore likely to sniff danger. :-D  
  
-Kirby

### **Grade:**

Great