**Module 1 Required Coding Activity**

Introduction to Python (Unit 2) Fundamentals

**This Activity is intended to be completed in the jupyter notebook, Required\_Code\_MOD1\_IntroPy.ipynb, and then pasted into the assessment page on edX.**

This is an activity from the Jupyter Notebook **Practice\_MOD01\_IntroPy.ipynb** which you may have already completed.

| **Important Assignment Requirements** |
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| **NOTE:** This program **requires** **print** output and using code syntax used in module 1 such as keywords **for**/**in** (iteration), **input**, **if**, **else**, **.isalpha()** method, **.lower()** or **.upper()** method |

**Program: Words after "G"/"g"**

Create a program inputs a phrase (like a famous quotation) and prints all of the words that start with h-z

Sample input:  
enter a 1 sentence quote, non-alpha separate words: **Wheresoever you go, go with all your heart**

Sample output:

WHERESOEVER

YOU

WITH

YOUR

HEART

* split the words by building a placeholder variable: **word**
  + loop each character in the input string
  + check if character is a letter
  + add a letter to **word** each loop until a non-alpha char is encountered
* **if** character is alpha
  + add character to **word**
  + non-alpha detected (space, punctuation, digit,...) defines the end of a word and goes to **else**
* **else**
  + check **if** word is greater than "g" alphabetically
    - print word
    - set word = empty string
  + or **else**
    - set word = empty string and build the next word

Hint: use .lower()

Consider how you will print the last word if it doesn't end with a non-alpha character like a space or punctuation?