Weekly Exercise 3 – Spelling Bot

- Problem Statement:
  - Write a chatbot that spells the word you enter and tells you how many letters there are in the word

- About Requirements:
  - A different way of describing the problem statement and the requirements your program must satisfy is by giving you a series of sample input and the output this sample input is expected to produce.
  - From these sample input and expected output, you can get an idea of how to design your solution and implement your program.
  - You also can use these sample input and expected output to test your program.
  - Have a look at the next few slides …
Please, enter a word to spell: **machine**

- Letter 1 is `'m`
- Letter 2 is `'a`
- Letter 3 is `'c`
- Letter 4 is `'h`
- Letter 5 is `'i`
- Letter 6 is `'n`
- Letter 7 is `'e`

The word 'machine' has 7 letters.

This is what the user enters

This is what your program should print on the screen
Please, enter a word to spell: 3.1415
Letter 1 is '3'
Letter 2 is '.
Letter 3 is '1'
Letter 4 is '4'
Letter 5 is '1'
Letter 6 is '5'
The word '3.1415' has 6 letters.
Sample input and output - 3

Please, enter a word to spell: BaNaNa
Letter 1 is 'B'
Letter 2 is 'a'
Letter 3 is 'N'
Letter 4 is 'a'
Letter 5 is 'N'
Letter 6 is 'a'
The word 'BaNaNa' has 6 letters.
Sample input and output - 4

Please, enter a word to spell:
Come on! Be serious and enter a word!
How to proceed

• From these 4 sample input and output can you figure out what your solution should be and what your program should do?

• In this weekly exercise, use anything we have learnt so far of Python and more, if you wish.
How to proceed:

• Follow the process demonstrated in class:
  • Use Repl.it Python3
  • In the text editor
    • Write a complete header
    • Write an algorithm in English as Python comments
    • Translate your comments into Python 3 statements
    • Press the Run button to execute your program. Enter as many different responses to test as much of your code as possible
  • Press the Shared button to get the link
• Submission: Copy and paste the link in CourSys
• Due this Thursday, May 23 at 3pm
• If you have any issues or questions, post them on Piazza or ask a TA during Open Lab hours or the instructor during her office hours

• You must work on your own.
• No late submission will be accepted!