CSCI 77800: Ethics and Computer Science
ASYNC/HW for Week #3 – 9/12/2024
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ASYNC

1. Please see Blackboard for ASYNC-WK3 – you are to create and submit EthiCS video #2.
2. The following are important points:
    a. There should only be 1 group of 3. It would be collegial to allow the group of three to rotate. You may, but do not need to, work with the same person/people each week.
    b. Please link *your references* in the shared spreadsheet. These references should be in addition to the ones provided.
    c. Should you wish to discuss the topic or want assistance in forming a new group, please contact your instructor.

HW – Read/Watch

1. You should review the slides from the SYNC session to make sure that you fully understand the concepts presented. In addition, the slides contain links to references and optional reading. These may be of interest or may help augment your understanding.
2. Don't hesitate to send questions or review needs to Edgar: et3076@hunter.cuny.edu.
3. The Downey/Think Python text can be found here: https://allendowney.github.io/ThinkPython/. So far, we have read Ch 1 through Ch 4.
    a. **Chapter 5 (Conditionals/Recursion)**: https://allendowney.github.io/ThinkPython/chap05.html.
    b. **Chapter 6 (Return values)**: https://allendowney.github.io/ThinkPython/chap06.html.
    c. **Chapter 7 (Iteration and Search)**: https://allendowney.github.io/ThinkPython/chap07.html.
    d. You may (but aren't required to) read Chapter 8 (Strings and Regular Expressions) until after we cover re/regex next week.

HW – Do

1. **Downey Chapter 5** – 5.14.1 (virtual assistant), 5.14.2 (time), 5.14.3 (is_triangle), 5.14.4 (stack) – you can check yourself with tools previously linked, 5.14.5 (jupyturtle), 5.14.6 (Koch curve), 5.14.7 (virtual assistant).
2. **Downey Chapter 6** – 6.12.1 (virtual assistant), 6.12.2 (hypot), 6.12.3 (is_between), 6.12.4 (Ackermann), 6.12.5 (GCD) – should be familiar from previous courses.
3. **Downey Chapter 7** – 7.9.1 (virtual assistant), 7.9.2 (uses_none), 7.9.3 (uses_only), 7.9.4 (uses_all), 7.9.5 (spelling bee), 7.9.6 (functions interact), 7.9.7 (virtual assistant), 7.9.8 (uses_all again).
4. Next session we will be working with the built-in **re** library. Ensure that you are able to run a Python program in Jupyter that uses this library. Minimally, this is a program with the instruction **import re**.
    a. Please note that the documentation for the built-in **re** library (https://docs.python.org/3/library/re.html) notes that it has limitations. If you so choose, feel free to install the faster and more powerful **regex** library instead (https://pypi.org/project/regex/). Your program then would need to **import regex**.