ENGR-1330-2021-3 Computational Thinking and Data Science Assignment 1

Name:		
R Number:	 	

Purpose: Demonstrate familiarity with the JupyterLab computing environment; Python; and practice critical thinking regarding persuasive speech.

- 0. Jupyter notebooks are used in this class as a computing and documenting environment. Jupyter notebooks are an ordered collection of cells. What kind of cells are represented in a notebook?
- The two building blocks of Python code are expressions and statements. Define in a few sentences each component (e. g. An expression is a piece of code that A statement is)
- 2. Have some fun; create a notebook and insert the code below and run it. Describe what happens: (Obviously it's supposed to run a video, what is the video about? If you get an error, screen capture the error message and postulate how to solve the error)

```
from IPython.display import YouTubeVideo
# The original URL is:
# https://www.youtube.com/watch?v=U7db6ZeLR5s
YouTubeVideo("U7db6ZeLR5s")
```

- 3. Is the line in the script above **YouTubeVideo ("U7db6ZeLR5s")** best described as an expression or at statement?
- 4. An ad for ADT Security Systems says,

"When you go on vacation, burglars go to work [...] According to FBI statistics, over 25% of home burglaries occur between Memorial Day and Labor Day."

Do the data in the ad support the claim that burglars are more likely to go to work during the time between Memorial Day and Labor Day? Please explain your answer.

Note: You can assume that "over 25%" means only slightly over. Had it been much over, say closer to 30%, then the marketers would have said so.

Upon completion of the exercise save your responses as a PDF file and upload to Blackboard.