Project: Formal and Inductive Logic Using Python

Directions

For this project, you can choose one of two options: the "basic" python python project (based on lecture 10 on Perusall), or the (somewhat more advanced) "Pandas" project (based on lecture 13 on Perusall). I'll also give you a small amount of extra credit if you do the both 😊.

Citation: You don't need to cite in-class material (from my notes or the lecture books). Any outside material must be cited appropriately.

Scoring (out of 20 points). Unless noted otherwise, each coding question is worth 2 points. The scoring is as follows:

2/2 – The problem is complete and correct.

1/2 – The problem is partially correct.

0/2 – The problem is missing but incorrect.

Option1: Python Programming With Google Colab (20 points total)

This is based on lecture 10 (available on Peruall). Open the following notebook:
https://github.com/brendanpshea/intro_to_python/blob/main/Python_01_Intro.ipynb

Complete all 10 of the exercises. Then download your completed notebook as an .ipnyb file with the filename **YourLastName_Python.ipnyb**. Submit this to D2L.

Option 2: Statistical Reasoning With Python and Pandas (20 points total)

This is based on lecture 13 (available on Peruall). Open the following notebook:
https://github.com/brendanpshea/intro_to_python/blob/main/Python_02_Statistical_Reasoning_With_Python_and_Pandas.ipynb

Complete all 10 of the exercises. Then download your completed notebook as an .ipnyb file with the filename **YourLastName_Pandas.ipnyb**. Submit this to D2L.