EPPS 7v81 Advanced Data Programming

Exercise 4

I. Run the following exercises using PyCharm Edu or notebook of your choice. The files are in Teams files folder named Exercises. Make sure you locate the bugs and fix them before executing:

> i.   6_1_functions.py
> ii. 6_2_1_loopsandlistcomprehension.py
> iii. 6_2_2_loopsandlistcomprehensionexercise.py

II. Week's challenge:

a. Facebook launches Forecast to combine public opinion and trending data to predict events. According to the company,

> *"We believe that a community built around predictions is not only a good way to surface crowdsourced wisdom, but may also help to encourage healthier online conversations across a broad range of topics."*

Early signal systems, conflict forecasts and other international event developments have been goals for political scientists and international relations scholars. How would you design an application to predict events using:

> i.   Crowdsourcing
> ii. Wiki
> iii. Social media data
> iv. Surveys
> v.   Others

b. Give thoughts on designing such as system comparable to Forecast but weigh in social scientists' insights.