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INST126

Project Check-In

Group Member: Mehar Saini

For our project, we are creating a graph in which vaccination intention is presented. The problem I tackled is the production of a graph, which I have not done in the setting of Python before. In this case, I figured out, through research, how to make a bar graph in the Python program with the use of the Matplotlib.pyplot module, which allowed me to access the plt function. With this I was able to develop a double bar graph using the bar() method and many of the other integrated methods that would edit the graph.

The file that contains my solution is meharcheckin.py.
To run the code in the terminal, input:
python3 meharcheckin.py

Sources:

Plotting multiple bar charts using Matplotlib in python. GeeksforGeeks. (2021, February 25). Retrieved November 16, 2021, from https://www.geeksforgeeks.org/plotting-multiple-bar-charts-using-matplotlib-in-python/.

- This source allowed me to learn more about how to develop a double bar graph with two different subjects (individuals who said no to the vaccine, and individuals who said yes to the vaccine). I used the code pertaining to separating the bars individually in my program because I did not have any knowledge on how to do it beforehand.

Data to fish. Data to Fish. (2020, July 4). Retrieved November 16, 2021, from https://datatofish.com/bar-chart-python-matplotlib/.

- This source allowed me to learn more about the Matplotlib module and its different constituents that allowed me to develop the bar graph using the data, as well as edit the bar graph (through titles, x-axis manipulation and more). I used this source because it allowed me to gain more knowledge on this specific part of Python since I did not know how to develop a bar graph in Python.

Group Member: Sarah Alameh

As we are creating a vaccination eligibility program, we found it important to provide a user with sufficient information regarding vaccination locations. The problem I decided to address is that of how we can compare the user's inputted zip code with that of other vaccination locations and output those vaccination locations. For this program I imported parse args in addition to importing sys. In addition to that, I imported haversine and vincenty that are utilized to find the distances between latitudes and longitudes. I decided to put my input function in my main function, which is later called in the last function. While I was still unable to complete this part, due to my lack of understanding, I desired for it to output 5 (n) separate vaccination locations that were near to the zipcode and latitude and longitude of the inputted zip code.

The file that contains my solution is sarahcheckin .py
To run the code in the terminal, please put this in terminal:
python sarahcheckin.py

Sources:

How to ask for user input in a function. Python related. (2012, October 6). Stack Overflow. Retrieved November 16, 2021, from \
\https://stackoverflow.com/questions/12758491/how-to-ask-for-user-input-in-a-function-python-related

Text File Parsing with Python. (2012, August 13). Stack Overflow. Retrieved November 16, 2021, from https://stackoverflow.com/questions/11936967/text-file-parsing-with-python

Group Member: Fariba Quader

In order to organize the information for the vaccination eligibility program we have decided to create a data frame. I will be taking information from the text file and converting it into a dataframe. I will be labeling each column based on the information of each section in the file. I figured out how to do so using research. I used the pandas module to create the data frame and used the function read_csv().

The file that contains my solution is fariba_check_in.py and it uses fariba.txt.
To run the code, in the terminal input:
python3 fariba_check_in.py

Source:

“How to Read One or Multiple Text Files into a DataFrame with Python?” EasyTweaks.com, https://www.easytweaks.com/pandas-read-text-files/.