UNIV199 Introduction to Programming with Python

Homework #12

Due: January 6, 2021, Wednesday, 23:59.

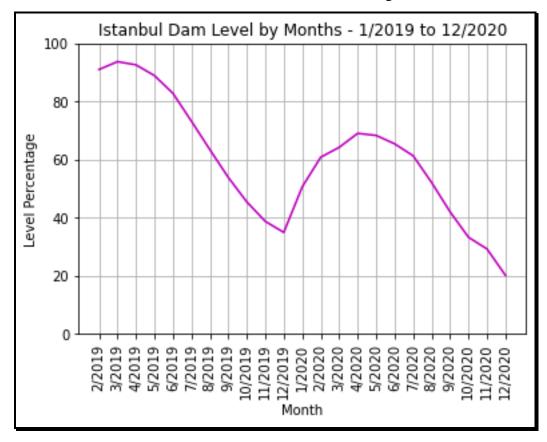
Plotting: Istanbul dams

Istanbul's monthly dam water level data from 2005 to present is provided in a CSV file named *Istanbul_Water.csv*. The data has the following columns: Month, Year and Percentage.

Write a Python program that will do the following:

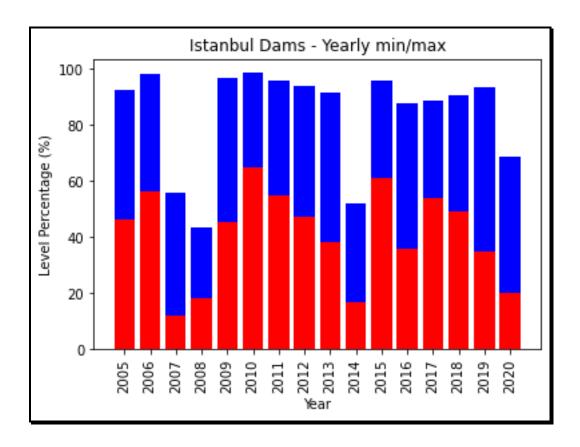
- Read the data from the CSV file;
- Plot the percentage level against the each month from January 2019 to November 2020. Pay attention to the following:
 - Make the line color magenta
 - Write the month information sideways on the x-axis by using

- Make the y-axis go from 0 to 100.
- Place the title and the labels on the axes. Place the grid lines.



- Plot the minimum and maximum dam levels in every year by creating a stacked bar chart. Note the following:
 - Stacked bar charts are built by calling the bar chart twice, first with the longer bars, then with the shorter ones.
 - Make the minimums red, maximums blue.
 - Write the year information sideways on the x-axis by using

• Place the title and the labels on the axes.



Name your Python py-file as **h12***yourlastname*.**py** and then upload it to Blackboard Learn at https://ku.blackboard.com. Anyone e-mailing his/her homework will lose points!

While doing all your homework assignments, remember that:

- You should not work together,
- You should not give or take any files,
- You should not give or take help other than simple verbal hints.