

Python seminar Homework for Chap. 4.3

1. Please plot a combined graph between a bar graph with COVID-19 infections (daily) and a line graph with COVID-19 infections per capita (total/capita) for your preference three countries. The COVID-19 infection data can be available by the python command:

```
url = 'https://github.com/CSSEGISandData/COVID-19/raw/master/csse_covid_19_data/csse_covid_19_time_series/time_series_covid19_confirmed_global.csv'
df = pd.read_csv(url)
```

The population data can be available by the python command:

```
urlp = 'https://population.un.org/wpp/Download/Files/1_Indicators%20(Standard)/CSV_FILES/WPP2019_TotalPopulationBySex.csv'
```

```
df = pd.read_csv(urlp)
df["PopTotal"] = (df["PopTotal"] * 1000).astype(int)
df2018 = df[df['Time'] == 2018][["Location", "PopTotal"]]
df2018.to_csv("population_2018.csv", index=False)
```

Then, the confirmed number of COVID-19 infection in each country and region will be stored in “df” and population data will be stored in df2018. Please plot the data as a graph as below.

