Lab02 - Assignment

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Assignment Description

Your task is to compare Employment to population ratio above age 15, since 1991 for two countries that you selected with a figure.

https://data.worldbank.org/ is a webside that you can obtain open source data about countries, economies and etc.

How to Download Data

- Go to https://data.worldbank.org/ website. Search for "Employment to population ratio, 15+, total (%) (modeled ILO estimate)".
- On the right side, you can download the data with file formats. Download the data with .csv format. The file contains the data for all the countries. You should select Select two countries (you can select any country that have data between 1991 and 2020).

Code

Clear workspace

clear clc

Task 1: Import Data

Load the .csv data and select the data for two countries.

Country 1: Turkey

Country 2: Brazil

```
Turkey=readmatrix("API_SL.EMP.TOTL.SP.ZS_DS2_en_csv_v2_2056759.csv","Range",[248_36_248_65])
Turkey = 1 \times 30
  51.8100
            50.7200
                     46.9400
                              49.4000
                                        49.3900
                                                49.4800
                                                           48.1600
                                                                     48.2700 ...
Brazil=readmatrix("API SL.EMP.TOTL.SP.ZS DS2 en csv v2 2056759.csv", "Range", [33 36 33 65])
Brazil = 1 \times 30
  58.1200
            58.4900
                     59.1400
                               59.4000
                                        59.6800
                                                  57.8800
                                                           57.9300
                                                                     57.3200 ...
```

Task 2: Plot data for two countries between 1991 and 2020. You are free to use any line style or color. Don't forget to add legends in the figure!

Task 3: Find max and mean values for those 2 countries

```
[maxTurkey,maxTurkeyIndex]=max(Turkey)

maxTurkey = 51.8100
maxTurkeyIndex = 1

meanTurkey=mean(Turkey)

meanTurkey = 45.3627

[maxBrazil,maxBrazilIndex]=max(Brazil)

maxBrazil = 60.8200
maxBrazilIndex = 18

meanBrazil=mean(Brazil)

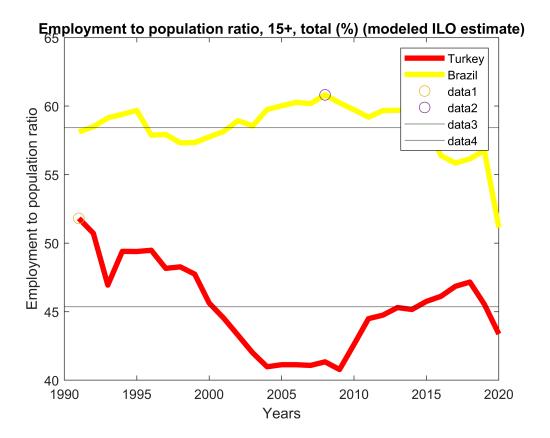
meanBrazil = 58.4277
```

Task 4: Mark max values for each country in the figure

```
plot(t(maxTurkeyIndex),maxTurkey,"o","MarkerSize",8)
plot(t(maxBrazilIndex),maxBrazil,"o","MarkerSize",8)
```

Task 5: Draw a line for each country that represents mean (average) of the employment data through x axis. (Matlab command is *yline*)

```
yline(meanTurkey)
yline(meanBrazil)
```



Finally, export this file as pdf by clicking Save->Export to PDF