CODE EXPLANATION

As per the instructions, download the gap-reminder csv file and save it.

To read from a csv file, use a dataframe, use pivot table and plot with a

heat map there are certain libraries that need to be imported from pip

python package. The packages to be installed in the environment and imported

are xlrd, openpyxl, pandas, numpy, matplotlib.pyplot and seaborn. The data file

for this assignment is a .csv data file. To read the data I have used pd.read\_csv

function. We need to reshape the data and we need to pull data to a wider form

to heatmap. To create a pivot table with year as x- axis and continents as y-axis,

used the function pd.pivot\_table with parameters index, and columns. As

specified in the assignment, year needs to be along x-axis .I assigned continents

to index, year to columns (y-axis) , lifeExp assigned to values for all other cells.

The next step would be to use to plot the heatmap with seaborn dependency.

Heatmap is a 2 dimensional graphical representation of data which uses a system

of color coding to represent different values. Heatmap is used as a visualization

tool which provides an immediate visual summary of information. Elaborate heat

maps allow the viewer to understand complex data sets. They use color to

communicate relationships between data values that are harder to understand if

numerically represented in a spreadsheet. The heatmap function has a number of

arguments that can be used to represent graphs in different ways. I have used

only dataframe and the linewidth (width of the lines that will divide each cell)

arguments to represent it in basic form.