**Assignment 3**

**Seaborn and the Heatmap:**

**Seaborn** provides Matplotlib, a popular yet often unwieldy python visualization library, with a high-level interface. Its mainly used for statistical data visualization in graphical format, whereas **Heatmap** is a two-dimensional graphical data representation where colors reflect the individual values found in a matrix.

**Assignment Explanation:**

1. I read the dataset using panda package (.read\_csv()).
2. The dataset was large, I examined it to check if there was any duplicate values and the output was false i.e no duplicate values found.
3. Extracted the required columns(country,year and lifeExp) from the dataset into a new dataset(df2).
4. Created a pivot table using the new dataset(df2) with index equals to country, columns equals to year and values equals to lifeExp.
5. Heatmap of the pivot table DataFrame was plotted using the heatmap() function of Seaborn.

**Note:**

* linewidth: the width of the lines that will divide each cell
* fmt: it helps format the string code when adding annotations.
* cmap: the mapping from data values to color space.

1. The heatmap figure was saved as heatmap.png