**CODE DOCUMENTATION AS CREATED BY SALIM OYINLOLA**

This documentation will be explained on a line by line basis explaining what each line of the Seaborn Python Program works.

import numpy as np

import pandas as pd

import matplotlib as mpl

import matplotlib.pyplot as plt

import seaborn as sns

The five line of codes are used to import the needed modules. Although the only modules used in this track were Pandas (for data manipulation) and Seaborn (for data visualization), the other three modules i.e. Numpy, Matplotlib and Pyplot were also important as good practice.

url="https://raw.githubusercontent.com/resbaz/r-novice-gapminder-files/master/data/gapminder-FiveYearData.csv"

This line is used to create a variable, url where the link to the dataset in csv format is saved.

df = pd.read\_csv(url)

This line is used to read the csv file as saved as a variable, url and reading it using the read.csv() function of pandas

df.head(10)

This line is used to print the first ten members of the dataset for better visualization.

salim = pd.pivot\_table(df, 'lifeExp', 'country', 'year')

This line is used to save the given, pivot table as show. The first argument, df is used to specify the name of the dataset, the second, ‘lifeExp’ is used to refer to what gets filled into the cells , the third is, ‘country’ is used to input what comes up along the y-axis and the last argument represents what comes in at the x-axis i.e. ‘year’

All this is saved under a variable called, *salim.*

salim.head(12)

This is used to print the pivot table in question. This particular output shows the first twelve rows.

sns.heatmap(salim, cmap="YlGnBu")

This is used to print the heatmap as show in the .png file under the name ‘Image Created by Seaborn’