ASSIGNMENT-3

Created By:

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- The **first step** is to **import the necessary libraries** like: ‘numpy’, ‘pandas’, ‘seaborn’ and ‘matplotlib’.

- **Next step** is to **read the dataset** given.
    - After downloading the data from ‘GapMinder’, the file was converted into ‘csv’ format from ‘xlsx’ for simplicity purposes.
    - It is observed that the data contains five variables: ‘year’, ‘country’, ‘pop’, ‘continent’ and ‘lifeExp’.
    - Since we, here, only consider three variables: ‘year’, ‘country’ and ‘lifeExp’, we can extract only those variables to proceed to our next step.

- **Third step** is to **create the Pivot Table** with ‘year’ along the x-axis, ‘country’ along the y-axis and ‘lifeExp’ filled within the cells.
    - Index in Python implies y-axis, which in our case is ‘country’;
    - Columns in Python implies x-axis, which in our case is ‘year’;
    - Values in Python implies the values for the Pivot Table which here is ‘lifeExp’;

- **Final step** here is **creating the Heat Map** from the Pivot Table created in the above step.
    - This is done using ‘sns.heatmap()’ command.
    - The figure size is set as: (20,70).

To download the Heat Map in ‘png’ format:

1. *Import ‘savefig’ from ‘pylab’*
2. *Then ‘.savefig’ command will help us to download the heat map in the required png format.*