**Climate Change Assignment**

For this assignment, two major python libraries were employed for the wrangling and visualization of the dataset used.

**Insights from the Analysis**

The datasets used for this assignment were sourced online from the World Bank and GitHub, respectively. The dataset obtained from the World Bank website contained 20216 observations (rows), while the dataset obtained from GitHub had 249 records. Upon cleaning and merging of the two dataframes, 21 years records for Accessibility to Electricity and Total population between 1990 and 2010 were chosen and worked on for the purpose of this assignment. Here, we found the number of records (within the specified years) to be 3493. Next, the data was grouped by year and country.

Upon grouping by year, we found the minimum, maximum, and average values for percentage of population with access to electricity to be 76.27%, 95.80%, and 81.24 respectively. Next, we checked the top-3 years when access to electricity was highest. The years are: 1990, 1991 and 1992 respectively.

Next, we checked for the correlation between the variables (access to electricity (% of population) and population (total)), here, we found that per unit increase in population (100, 000), there is a drop in access to electricity by 42%.

Upon grouping by country, we found the minimum, maximum, and average values for to percentage of population with access to electricity to be (4.08%, 100.00%, and 78.62%) respectively. Next, we checked the top-3 countries with access to electricity. The countries are Albania, Andorra, and Australia with 100% of the population having access to electricity.

From the analyses, we found that population is on the rise over the years (there were drops in some years though), while access to electricity declined steadily from year 1990 until around year 2002 when it starts increasing i.e., more people start having access to electricity. We can infer from this that electricity generation has increased incredibly from year 2002 upward.

**Snapshots from the analysis**

 



