Part I

Below is the line graph plotted by the code showing the sanitation access data trend for different income groups over time.
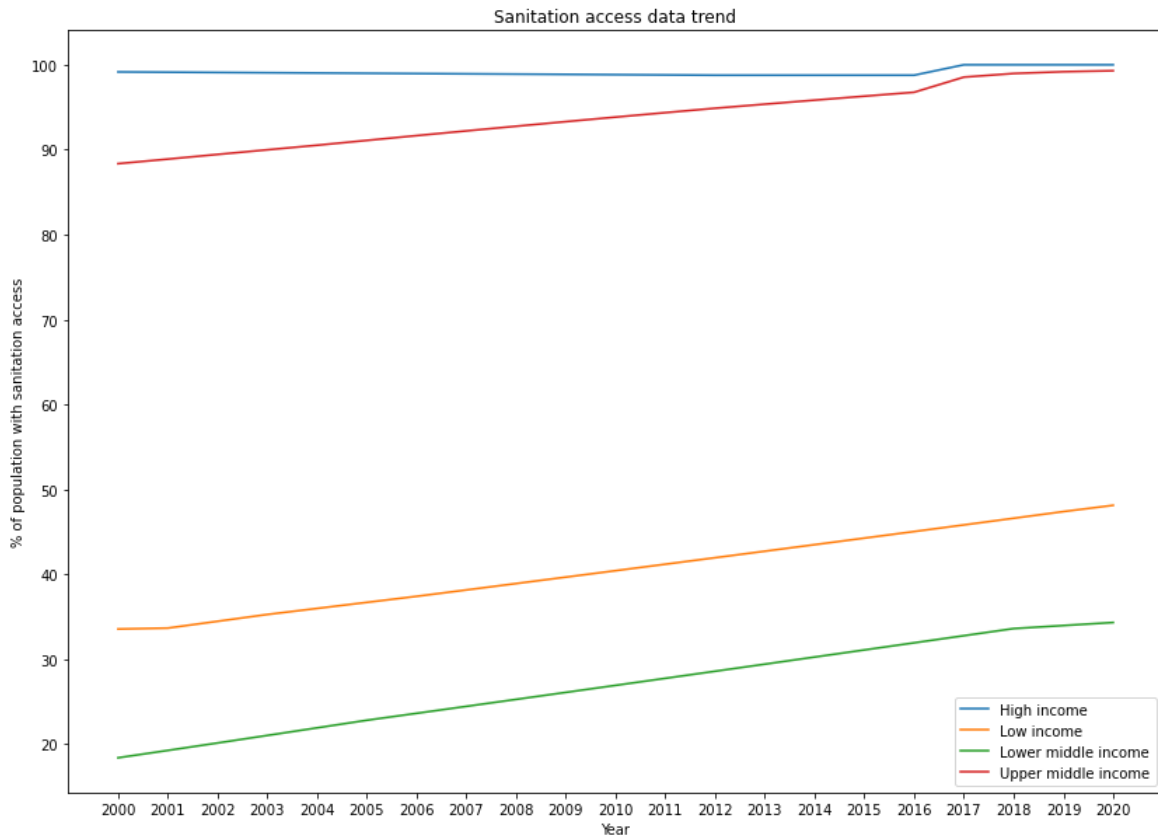

Fig.1. Sanitation access by different income group over time

   1. How is access to sanitation facilities changing over time?
From fig.1, we can see that there has been an overall increase in the percentage of the population using basic sanitation services over time.

   2. Is there an overall trend?
Yes, there is an overall increasing trend in the percentage of the population using basic sanitation over the years.

   3. Does it vary by income group?
Yes, from fig.1, we can see the trend varies clearly by different income groups. The high-income group has the highest percentage of the population using basic sanitation services, followed by upper-middle-income, lower-middle-income, and low-income groups, in consecutive order.
Another trend that we can see from the graph, the rate of increase in the percentage of the population with sanitation access over time is highest for lower-middle-income groups with ~19 % followed by lower income group with ~7%.