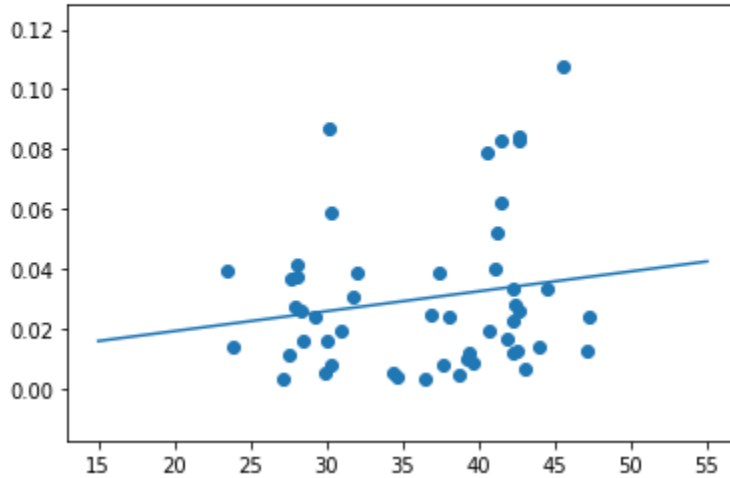


TASK 1:

p-values: 0.22587212168821744

R²: 0.0297855879051554

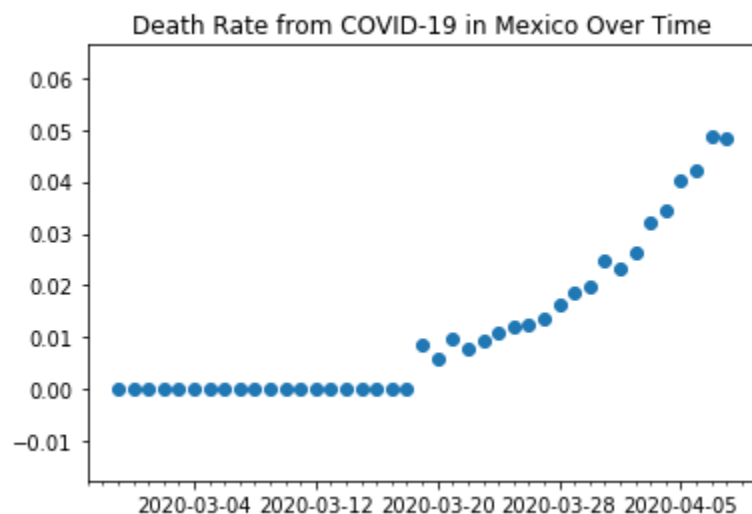
Slope: 0.000665030949548829



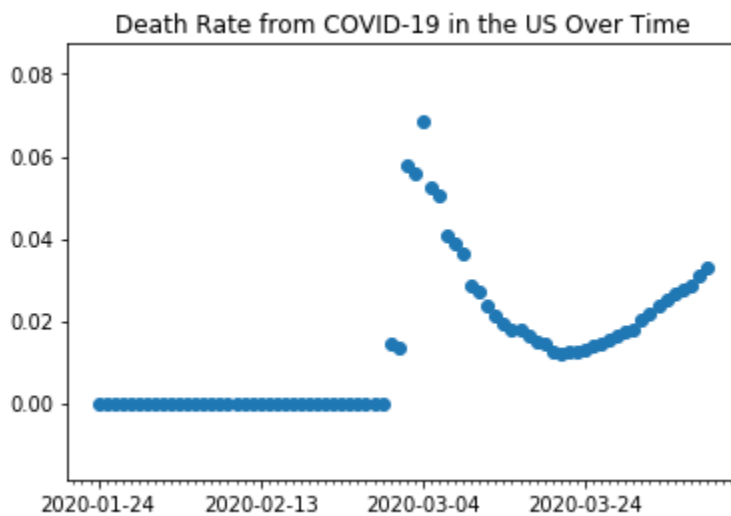
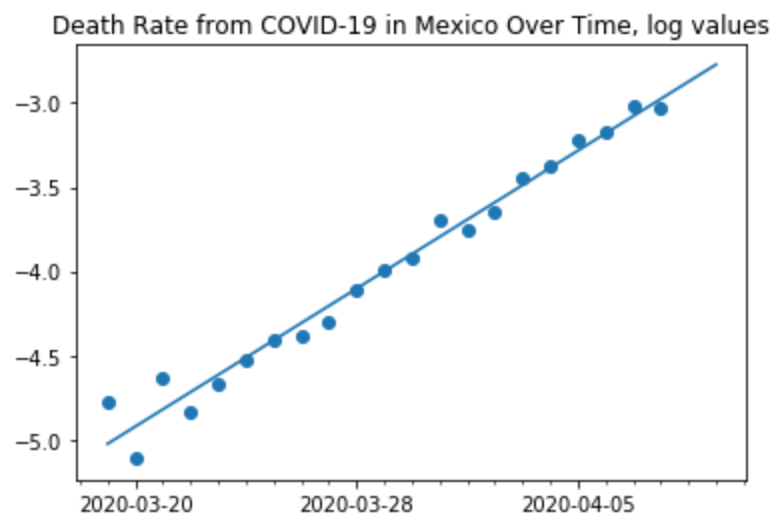
Using the cutoff of confirmed cases at 1000, it is evident that there is no correlation between death rate and median age. This could be used to check if the claim that you are at more risk of death as you age with respect to COVID-19.

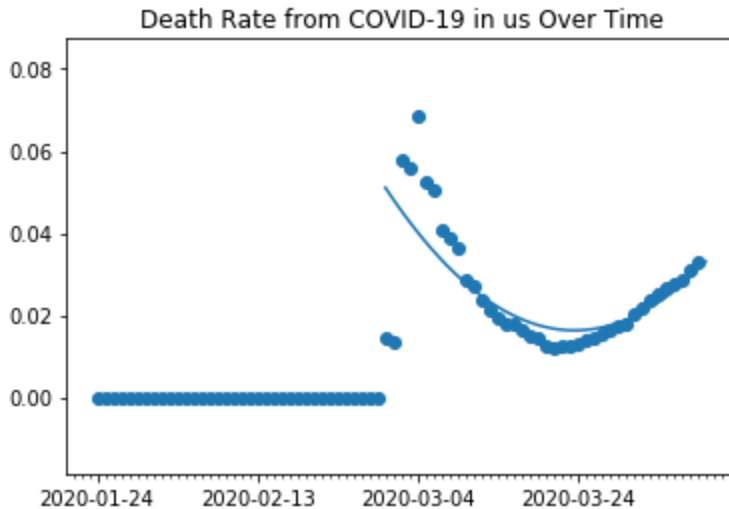
TASK 2:

Research Question: How do the death rates of Mexico and the United States compare over time? I will compare two separate graphs for this. Hypothesis: Over time, for both Mexico and the United States, their death rates will increase, however the United States may have a higher max death rate and may increase in death rate more than Mexico because it has a larger population than Mexico. I expect that in both cases, death rate will grow linearly.



p-values: 6.919065700094201e-17
R^2: 0.9761943113379448
Slope: 0.10238561159332393





I obtained this data from <https://datahub.io/core/covid-19>, which uses data source from 2019 Novel Coronavirus COVID-19 (2019-nCoV) Data Repository by Johns Hopkins CSSE. It contains historical and current information about the pandemic globally.

The methods I used to look at this data were either manipulating the data, in the case for Mexico, then performing a linear regression, or performing polynomial regression, in the case of the US. The hypothesis I made is refuted, as the US goes from a period of rapid growth, to declining, and then rising again, where Mexico followed an exponential growth of the death rate in the chunk I analyzed. To be more sure of the credibility of my results, I would try to see if I could perform the regressions better, and compare these results to results I may get using a different, credible, data source. If the trends are similar or the same, then I know the relationships presented here are more credible.

Task 3:

I took this course for two reasons. My first reason is that I am interested in COVID-19 and what will happen. My second reason is that I am interested in gaining a lot of skills from this course.

It took me approximately 7 hours to complete this assignment.