Use linear regression to predict COVID-19 mortality in the countries worldwide. For each country, let us use the following two features:

1. Percentage of persons over the age of 65 in the population. This information can be found at <https://en.wikipedia.org/wiki/List_of_countries_by_age_structure>
2. The number of hospital beds per 1,000 people in the most recent reported year. This information can be found at <https://data.worldbank.org/indicator/SH.MED.BEDS.ZS>

The response variable for each country will be the number of COVID-19 deaths per 100K population. This information can be found at https://coronavirus.jhu.edu/data/mortality

To train the model, use the data from 10 countries of your choice (excluding USA). Then apply the trained model to predict the number of deaths per 100K persons in the USA.

You can use Linear Regression functions from sklearn package (<https://scikit-learn.org/stable/modules/generated/sklearn.linear_model.LinearRegression.html>) Please submit

1. Your source code written in Python.
2. All external files with the data used in your python script. Please make sure that the paths in your script are set correctly. If the TA will not be able to run your code, you will be penalized.
3. A text file that contains (a) the list the countries that you used to train the model; (b) the predicted and true value for the US.

If you cannot submit the files to iCollege directly, please, archive them, and then add an extension .txt to your archive. For example, you have archived your files of the source code into SuperStudent.zip. Then, you have to rename it as SuperStudent.zip.txt and upload to iCollege.