Python for Data Analysis and Visualization

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**Homework Exercises: Data Subsets**

1. Explain in your own words what this piece of code is doing:

df = read\_csv(“test\_csv.csv”)

df2 = df.loc['row1':'row6', :]

df2.head(5)

1. What is the index column of the above df? What parameter would we use to specify the column of index 5 as the index column for the dataframe?
2. Write the code the get the minimum value of a row “year” in a dataframe df\_years
3. If you are about to write some code using the pandas library, what is the first line of code you have to enter in your program?
4. Below is a table containing the population of major cities in millions by year. Write the code to print which cities in the following table had a population greater than 20 million in the year 2010.

*Note: I have made up these numbers except for 2020!*

|  | London | Paris | New York | Tokyo |
| --- | --- | --- | --- | --- |
| 2020 | 9.0 | 10.9 | 18.9 | 37.5 |
| 2010 | 8.9 | 10.4 | 19.2 | 37.4 |
| 2000 | 8.9 | 10.5 | 19.1 | 37.1 |
| 1990 | 8.8 | 10.4 | 19.0 | 36.5 |