File Reading

- 1. Read airquality.csv file. Note: you may have to use double slash for path ("data\\airquality.csv") as '\a' is an escape character.
- 2. Understand about the data from airquality.pdf

Data Frame properties and quality check

- 3. How many rows in the data?
- 4. How many columns in the data?
- 5. What are the column names?
- 6. How many null values in Ozone column (Note: nans are treated as nulls. There is a pandas function to catch nulls)

Data Frame slicing

- 7. Slice from airquality a dataframe which only has rows with valid entries for Solar.R. Remove rows which has null values in Solar.R column
- 8. What is the average value of Ozone column?
- 9. What is the average value of Solar.R on days with temperature above average temperature?
- 10. Slice only records of 15th day of each month
- 11. Slice records of 6th and 8th month alone
- 12. What is the average ozone values of the days where both Solar.R and Temperature are above their averages?

For loops

- 13. Calculate average values of Ozone, Solar, Wind and Temperature and save in a list/array/series
- 14. Calculate month-wise average Ozone and save in a list/array/series
- 15. Calculate month-wise average Ozone, Solar, Wind and Temperature and save in a matrix/data frame. [Hint: nested for loop?]