PANDAS Exercise

Dataset: `bejing_air_quality.csv`

1) Print the number of columns and rows of the dataset.
   (with 1 line of Python code)
2) Print the first 24 rows of the dataset (and only columns: `hour, PM2.5, PM10`).
   (with 1 line of Python code)
3) Print the rainy samples (Rain value > 0).
   (with 1 line of Python code)
4) Print a tuple containing the max and min value of the `PM2.5` column.
   (with 1 line of Python code)
5) Print the correlation between the `PM2.5` and `PM10` column.
   (with 1 line of Python code)
6) Add a new column titled “AQI” (Air Quality Index). For each row, the value of AQI must be set to “Good” if the value of PM2.5 is lower than 300; it must set to “Bad” otherwise.
   (with 1 line of Python code)
7) Transform the column “hour”, from 24 to 12(am/pm) hour clock.
8) Drop rows with missing values (NA).
   (with 1 line of Python code)
9) Compute the average of the TEMP column, for each distinct value of the wind direction (column `wd`).
   (with 1 line of Python code)