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1. Introduction and Assumptions

The course study assigns us to explore various data analysis methods and to perform operations such as Data Manipulation, Data Exploration and Data Visualization. A set of meteorological dataset from two different airports (i.e, LaGuardia and John F. Kennedy) is provided, which is analyzed in detail to redeem requisite data for decision making. The analysis is done using R Programming : a language for statistical computing, designed by statisticians Robert Gentleman and Ross Ihaka in 1993. With the usage of packages and libraries available in RStudio, the data is pre-processed, analyzed, visualized & explored accordingly, so that the task goal is accomplished.

Figure 01 : RStudio IDE for R programming (RStudio Logo Usage Guidelines, n.d.)

The provided dataset comprise of different attributes related to time, pressure, origin, wind, etc. There are a total of 15 columns and 17,412 rows consisting hourly data from LGA and JFK airport stations. Since airports are supposed to have exemplary conditions such as high visibility and weak windings, the goal is to analyze data, make required decisions and find about the actual condition through data results. Several manipulations related to wind, frequencies, directions, temperature and relations are calculated. The outcome produced is supposed to assist employees in airport take appropriate decisions. In time, Turnitin : a plagiarism detection tool, is also used to detect plagiarism offense during the submission of 'Weather Analysis Project'.

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