# CS5008 Final Project

Refer to the following link for details on the data set provided.

https://archive.ics.uci.edu/ml/datasets/Air+Quality

Step 1:

Please refer to the data file provided.

Step 2:

Study all the attributes on the data set from the link provided.

Step 3:

Create a class airQualityType with the following data members:

Date, Time, Temperature, Relative Humidity and Absolute Humidity

Step 4:

Read the corresponding values for each of the data members from the file provided and store in an appropriate data structure.

Step 5:

Your program should have the following menu options:

1) Prompt the user to enter month and the program should display the average temperature for that month.

2) Prompt the user to enter month and the program should display the average relative humidity for that month.

3) Prompt the user to enter month and the program should display the average absolute humidity temperature for that month.

4) Prompt the user to enter a valid date and time. The program should then display the temperature, and relative humidity at that date and time.

5) Prompt the user to enter the month and the program should display the highest temperature for that month.

6) Prompt the user to enter the month and the program should display the highest relative humidity value for that month.

7) Prompt the user to enter the month and the program should display the highest absolute humidity for that month.

8) Display the dates and times for a month when the temperature is higher than the average temperature for that month along with values of the temperature.

9) Display the dates and times for a month when the relative humidity is higher than the average relative humidity for that month along with values of the relative humidity.

10) Display the dates and times for a month when the absolute humidity is higher than the average absolute humidity for that month along with values of the absolute humidity.

Submission Details:

1) Complete project with all files

2) Documentation: including student name, aim of the project, user guide, description of the project along with its purpose, class diagram, algorithm, source code listing, test plan and testing results.

3) State assumptions if any clearly.

4) Include a reflection with regards to your final project work.