WQD7004 Programming for Data Science (Group Project – 20%)

Your company has received several new projects this month. All these projects are equally important, with a certain level of technical difficulties and challenges. You have been instructed by the CIO to lead a team of **5 members**, to handle one of the projects. You have been given **10 weeks** to complete the project and prepare a presentation. Wishing all of you best of luck.

Details

1. Choose a specific title for your project and get a dataset related to your project.

2. Based on the dataset selected, perform the following steps:
   a. Determine the details about the dataset (e.g. title, year, purpose of dataset, dimension, content, structure, and the summary) by exploring the raw data.
   b. Data cleaning: Putting it all together as a new cleaned/processed dataset. Which section of the data do you need to tidy? You can use any cleaning packages in R
   c. Data analysis: Identify the questions, what is the objective/goal of processing this dataset? What answers are you interested to find from this dataset? You must have at least two questions. **It is best to have different types of problems**, i.e. one regression, and one classification.

Requirements

1. Each group must have 4/5 members.

2. Report and presentation submission in week 13. Late submission will be subjected to mark deductions.
   a. Report: Submission will be an R markdown published at RPubs, and the link is to be submitted in spectrum or any other medium as specified. The R markdown may include the following:
      - Short introduction and objectives of the project
      - Explanation of all the processes involved in the project.
      - Results, which may include visualization, prediction, evaluation of models and discussion of output.
      - Conclusion
   b. Presentation: prepare the presentation slide and include the presentation recording link in the slide.
   c. Only the group leader is required to submit the report and presentation slide.

3. Marks will be given based on your slides presentation and report.

4. Plagiarism is strictly PROHIBITED. You will be penalized if any of your work is found online.