Case Study 1:

You and your team are working as Data Analysts in a Financial Institute. Recently, Government (Department of Statistik Malaysia) has published a series of Statistical Data regarding the household income in Malaysia for the year 2019 (year 2016 are used as comparisons) and household income comparison between 2019 and 2020. National Property Information Centre has published the latest property price up Q1 year 2022.

As the Financial Institute you work with are going to design a **brand-new Mortgage Loan Product**. Thus, your team are requested to analyze the past data and latest data provided by the Government and relevant agency so that product development team could designed a comprehensive product to suit the market based on the report from your team.

Your team are required to have a summary report that include:

1. Summary of the property price and household income in Malaysia.
2. Projection/Forecast of property price and household income in the near future.

Note:

- You might need to extract out relevant data, reconcile and clean the data before the analysis.
    - ❖ Not necessary to use all the data provided. Please extract data that relevant to your analysis only.
    - ❖ You may extract relevant household income data from "Latest Data from DOSM"folder and reconcile with the "Household income 2020 from DOSM" excel file.

- ❖ Property price in "Housing Price and OPR (May 2022)" excel file are separated for year before 2018 and 2018-2022. You need to reconcile the data before doing further analysis.

- You are required to state, explain, and justify the **methods/formula used in the projection/forecasting**.

- You are allowed to use any programming software such as R-program, Excel with VBA, SPSS, SAS etc.…

- You need to **visualize the finding by using suitable charts**.

- You are not just doing reporting. Thus, please do **further analysis and provide justification/explanation** based on the charts. Please comment wisely on the findings.

- Provide hyperlink/appendix if you use any extra data other than the data provided.

- Please submit both editable (e.g. MS Word) and pdf file together in a zip folder and upload into "Submission" folder under the "File" tab in the private channel. Kindly rename the zip folder follow the House Style.