**Project Title:** Crime Analysis in Victoria

**Team Members**

* Muzaffar
* Mahsa
* Vi
* Carla

**Project Description/Outline**

To find out patterns of crime happening around Victoria and the link of crime rate with economic indicators (unemployment rate, inflation rate).

**Research Questions to Answer**

1. Find the distribution of crime rate by all Local Government Area(LGA)s in Victoria?

2. Which LGAs have the highest crime rates and how has it changed over the past 10 years?

3. What are the major divisions of crime in Victoria and how has it changed over the past 10 Years?

4. Do economic factors, such as unemployment rate and inflation rate, affect crime rates?

**Datasets to Be Used**

* Crime Statistics data from Crime Statistics Agency (CSA)-data available in Victoria Police website
* Monthly inflation and unemployment rate from ABS

**Rough Breakdown of Tasks**

* Getting the data from relevant sources (ABS, CSA)
* Data cleaning/filtering data
* Identify data variables of interest.
* Create data frames.
* Creating relevant charts to visualise data:

1. Bar Chart for crime rate per 100,000 population for all LGAs -year 2023
2. Bar Chart for crime rate per 100,000 population for Top 10 LGAs- year 2023
3. Line charts of crime rate per 100,000 population for Top 10 LGAs -years 2014-2023
4. Pie chart for major divisions of Offences by Incidents Recorded-year 2023
5. Bar chart for top 10 Offence Subdivisions by Incidents Recorded-year 2023
6. Stacked Bar Chart for Top 10 LGAs by major divisions of Offences -year 2023
7. Line chart of crime rates for Major Offence Divisions-years 2014-2023

* Regression analysis to find relationship between economic factors and LGA crime rate per 100,000 population.
* Identifying trends and studying findings from the analysed data
* Writing inferences and conclusions based on our research questions