

## **Week Four - Assignment**

### **PART 1 – INDIVIDUAL**

1. Create a bar graph showing the average miles per gallon (mpg) for each unique number of cylinders (cyl) using the base r mtcars dataset.
2. Generate a line graph representing the monthly counts of air passengers over time using the AirPassengers dataset.
3. Use the iris dataset in base R to create a scatter plot with petal length on the x-axis and petal width on the y-axis. Color the points based on the species.
4. Using the economics dataset, create a line graph with time on the x-axis and two lines representing the trends of unemployment and population over time. Differentiate the lines by color.
5. Using the diamonds dataset, generate a box plot showing the distribution of diamond prices for each combination of cut and color. Use facet grid to separate the plots based on the diamond's clarity.

### **PART 2 - GROUP**

Create descriptive graphs of the data you have chosen to use for your group assignment. Make a minimum of three different figures.