**Assessment-1**

* How many rows and columns does the dataset contain?
* What are the column names (features) in the dataset?
* Are there any missing or null values in the dataset?
* What is the range (minimum and maximum values) of the mpg (miles per gallon) column?
* What is the average horsepower of the cars in the dataset?
* How many cars have cylinders equal to 4?
* Create a histogram of the mpg column. What does the distribution of miles per gallon look like?
* Plot a bar chart showing the count of cars for each unique value of cylinders.
* Create a scatter plot between horsepower and mpg. What relationship do you observe?
* Is there a correlation between weight and mpg? Support your answer with a scatter plot.
* Does the mpg value vary significantly with different cylinders? Use a box plot to visualize this.
* The dataset contains a model year column. Plot the average mpg for each model year.
* What trends do you observe in the mpg values over the years?
* Group the cars by origin (country) and calculate the average mpg for each group. Which country has the highest average mpg?
* Visualize the comparison using a bar chart.
* Choose any two numerical columns and create a visualization of your choice.
* Briefly describe the insights you gain from the visualization.