- 1. (i) Write a function in R programming to print generate Fibonacci sequence using Recursion in R
- (ii) Find sum of natural numbers up-to 10, without formula using loo statement.
- (iii) create a vector 1:10 and Find a square of each number and store that in a separate list.
- 2. (motor trend car road test) comprises fuel consumption, performance and 10 aspects of automobile design for 32 automobiles. It comes pre-installed with package in R.
- (i)Find the dimension of the data
- (ii)Give the statistical

summary of the features.

- (iii)Print the categorical features in Dataset
- (iv)Find the average weight(wt) grouped by

Engine shape(vs)

- (v)Find the largest and smallest value of the variable weight with respect to Engine shape
- 3. Use ggplot package to plot below EDA questions label the plot accordingly
- (i)Create weight(wt) vs displacement(disp) scatter plot factor by Engine Shape(vs)
- (ii) Create horsepower (hp) vs mileage (mgp) scatter plot factor by Engine Shape(vs)
- (iv)In above(ii) plot, Separatecolumns according to cylinders(cyl) size
- (v) Create histogram plot for horsepower (hp) with bin-width size of 5
- 4. Performing Logistic regression on dataset to predict the cars Engine shape(vs).
- (i)Do the EDA analysis and find the features which is impact the Engine shape and use this for model.
- (ii) Split the data set randomly with 80:20 ration to create train and test dataset and create logistic model
- (iii)Create the Confusion matrix among prediction and test data.