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 loop

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 se

(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 , Separate
columns 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.