- 1.(i) Write a R program to extract the five of the levels of factor created from a random sample from the LETTERS (Part of the base R distribution.)
- (ii)Write R function to find the range of given vector. Range=Max-Min Sample input, C<-(9,8,7,6,5,4,3,2,1), output=8
- (iii)Wirte the R function to find the number of vowels in given string Sample input c<- "matrix", output<-2
- 2.Load inbuild dataset "ChickWeight" in R
- (i) Explore the summary of Data set, like number of Features and its type. Fins the number of records for each features
- (ii)Extract last 6 records of dataset
- (iii) order the data frame, in ascending order by feature name "weight" grouped by feature "diet"
- (iv)Perform melting function based on "Chick", "Time", "Diet" features as ID variables
- (v)Perform cast function to display the mean value of weight grouped by Diet
- 3.(i)Get the Statistical Summary of "ChickWeight" dataset
- (ii)Create Box plot for "weight" grouped by "Diet"
- (iii)Create a Histogram for "Weight" features belong to Diet- 1 category
- (iv) Create a Histogram for "Weight" features belong to Diet- 4 category
- (v) Create Scatter plot for weight vs Time grouped by Diet
- 4.(i) Create multi regression model to find a weight of the chicken , by "Time" and "Diet" as as predictor variables
- (ii) Predict weight for Time=10 and Diet=1
- (iii)Find the error in model for smae