Analysis and Comments for Part 1

1. We assign data to s1 and create a distribution and assign it to s2. Then we plot line graphs for the two data sets that are created. Plot a graph for the sales1 data using blue color. Plot dotted lines for the number obtained in the poisson distribution. Draw a grid - NA draws no lines, NULL draws lines along the respective axis. Declare legend on the plot indicating Sales1 and Sales2 using colors. The graph changes for every iteration the code is run because we generate a random dstribution for s2.

2. Read data from a file and save it in a variable named sales. Convert sales into a matrix and plot a barplot for the data in sales with total on y-axis and values on x-axis for the two columns sales1 and sales2.

3. Boxplot is a function that draws a box plot the data provided. We plotted it for the same data sales and also calculated the median.

4. Facebook and Apple data is read from the csv files and histograms are drawn. Plot a histogram with values on x axis and frequency on y axis. Histograms are NOT barplots. Histograms are used to show distributions of variables while bar charts are used to compare variables.

5. data() function displays all the datasets available that come with R.data(package="ggplot2") ->> this displays all datasets in the ggplot2 package. library() function is used to import a particular library that can be worked upon. ggplot2 library has the mpg dataset. Summary function gives a summary about the dataset. attach() function attaches dataset to R search path. It is used to access the data in dataset directly without using the syntax "dataset_name$data". head() gives us first few rows of the dataset. Detach() detaches the dataset from the search path which is an important step. every dataset attached should be detached.

6. We use register_google() with google api and get the locations of the places that we define to it and plot them on the map of word or usa or any other country we can use.

7. We draw different scatter plots for different values of the datasets that are preloaded in the R package.

8. We use ggplot() library and plot a point plot for the dataset mtcars.