**FOUNDATIONAL R PROJECT 3**

Use the “mtcars” and “airquality” data frame for the following exercises:

Create a plot of...

1. Counts by a discrete variable.

2. A histogram or density of a continuous variable.

3. A summary statistic (mean, median, minimum, maximum, etc.) of a continuous

variable for each value of a discrete variable.

4. A scatterplot of two continuous variables, with a smoothed conditional mean

line.

5. Using one of the plots, you created change the title and axis labels.

6. Change the theme, either manually or with a preset.

Save it as an image

7. Based on field experiments, a new variety green gram is expected to give a yield

of 12.0quintals per hectare. The variety was tested on 10 randomly selected

farmers’ fields. The yield ( quintals/hectare) were recorded as

14.3,12.6,13.7,10.9,13.7,12.0,11.4,12.0,12.6,13.1. Do the results conform the

expectation?

8. Create a data frame with three groups, A, B, and C, having 3 scores in each

group. Test the mean difference between the groups

(70 Mrks)

NB: Share the screenshots of your work and the visualization images in a word

document well interpreted.