Homework 3

- 1. The Boston crime dataset can be downloaded using the link below
- 2. https://data.boston.gov/dataset/crime-incident-reports-august-2015-to-date-source-new-system
- 3. Use the above dataset to generate the following visualizations using ggplot 2
 - a. Stacked bar plot with DISTRICTS as x-axis, number of incidents as y-axis and stack the bar plot by DAY_OF_WEEK
 - b. Heat map with DISTRICTS as x-axis, DAY_OF_WEEK as y-axis, and fill the heat map with total number of shooting incidents
 - c. Plot line graphs with DAY_OF_WEEK as x-axis, total number of shooting incidents as y-axis. Use facet_grid to generate multiplots of the above plot by YEAR
 - d. Box plots with DAY_OF_WEEK as x-axis and number of incidents as Y-axis. Compute mean of each box plot and represent as a blue circle
 - e. Dotplot with MONTH as the x axis and total number of incidents as y-axis
 - f. What visualization would you chose to show distribution of number of incidents of crimes by OFFENSE_CODE_GROUP and how it changes according to year? Include the code to visualize the output.