Assignment #2

R Studio Basic for Data Sciences (Based on Session 2 delivered on 9 September 2021)

1. Create data frame with these two column vectors in R Studio

x = 1:30

y = x^3

1. Create plot of x and y variables in R Studio and interpret it carefully
2. Get appropriate correlation coefficient of this data in R Studio and interpret it carefully
3. Transform the plot to linear using appropriate mathematical function in R Studio
4. Get appropriate correlation coefficient now in R Studio and interpret it carefully too
5. Create a new column vector z defined in the slide 18 of session two slide deck in R Studio
6. Create a histogram of z variable in R Studio and interpret it carefully
7. Get summary statistics of z variable in R Studio and interpret it carefully
8. Get box-plot of z variable in R Studio and interpret the result carefully
9. Import “covnep\_252days.csv” data in R Studio and describe the variables in it
10. Create a chart with “totalCases” variable in y-axis and “date” variable in the x-axis in R Studio, describe the process leading to the creation of this chart
11. Get summary statistics of “totalCases” variable in R Studio and interpret it carefully
12. Create histogram of “newCases” variable in R Studio and interpret it carefully
13. Get summary statistics of “newCases” variable in R Studio and interpret it carefully
14. Get “box and whisker” plot of “newCases” variable in R Studio and interpret it carefully
15. Import “SAQ8.sav” data in R Studio and get frequency distribution (number and percentage of the attributes) of q01, q03, q06 and q08 variables on R Studio and interpret them carefully
16. Import “MR\_drugs.xls” data in R Studio and replicate multiple response frequency distribution as shown in the slide 35 of the session 2 slide deck