ISC 4241 - Activity #1

Team Number:	5	
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Activity on

PART I (20 Points) Programming

Problem 1.1 (8 Points) Read the EXCLE file "COVID_08312020.csv"

Problem 1.2 (8 Points) Produce a scatter plot using "TotalCases" and "TotalDeaths" and impose a loess line on the top of the data.

Problem 1.3 (8 Points) Produce a scatter plot using "ToTCases_1M" and "TotDeath_MPOP" and impose a loess line on the top of the data.

Problem 1.4 (8 Points) Produce a table with the following summary statistic including minimum, mean, median, variance, standard deviation, maximum, and skewness for the following five variables "ToTCases_1M", "TotDeath_MPOP", "TotalCases", "TotalDeaths", and "TotalTested". (Note: Display only three decimal place)

Problem 1.5 (8 Points) Obtain both the Spearman correlation and the Pearson correlation between the following variables "ToTCases_1M", "TotDeath_MPOP", "TotalCases", "TotalDeaths", and "TotalTested".

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PART II (10 Points) Fill In Blank

- 6. Steve fit a model on a set of data. After perform data exploration analysis, he decided to assume that the data come from normal population and the relationship between the response variable and a set of predictors should be linear. The analysis perform by Steve should be (parametric analysis / nonparametric analysis / cluster analysis).
- 7. Lori likes to know the relationship between a given predictor and the response variable. Lori is interested in (prediction / inference) problem.