## Project 2: Unit 2 (Deadline 23 March 2024 11:59pm)

This project has 3 parts and you need to do the following in R Studio and submit the R codes, R markdown and PDF report from the R markdown file.

## A link of video explaining your work using R markdown must also be submitted. DO NOT SUBMIT THE VIDEO FILE IN THE GOOGLE CLASSROOM, ONLY THE LINK IS NEEDED!

## Part 1: Replicate the following table using

1. Import "covnep\_252days.csv" data in R, get summary of "totalCases" variable to get:

Fix the problem with minimum value using base R code and get the summary of the same variable again to show that the minimum number of "totalCases" is 1 between 1st and 2nd COVID-19 cases in Nepal.

2. Import "SAQ8.sav" data in R Studio and get frequencies of q01, q03, q06 & q08 variables as per this table. You must show codes to compute frequencies, percentage, valid percentage and cumulative percentage in R script file i.e. DO NOT COPY THE VALUES given in the tables below!

Statistics makes me cry					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly agree	270	10.5	10.5	10.5
	Agree	1338	52.0	52.0	62.5
	Neither	735	28.6	28.6	91.1
	Disagree	187	7.3	7.3	98.4
	Strongly disagree	41	1.6	1.6	100.0
	Total	2571	100.0	100.0	

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I have little experience of computers					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly agree	702	27.3	27.3	27.3
	Agree	1127	43.8	43.8	71.1
	Neither	344	13.4	13.4	84.5
	Disagree	252	9.8	9.8	94.3
	Strongly disagree	146	5.7	5.7	100.0
	Total	2571	100.0	100.0	

I have never been good at mathematics					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly agree	383	14.9	14.9	14.9
	Agree	1487	57.8	57.8	72.7

N	Neither	482	18.7	18.7	91.5
D	Disagree	147	5.7	5.7	97.2
S	Strongly lisagree	72	2.8	2.8	100.0
To	otal	2571	100.0	100.0	

3. Import "MR\_drugs.xlsx" file in R Studio and get the following table using inco1, inco2, inco3, inco4, inco5, inco6 and inco7 variables. These variables are multiple response variables and each of them coded as 0=No and 1=Yes.

\$Income Frequencies						
		Res	ponses	Developt		
		Ν	Percent	Percent of Cases		
Income - Multiple Response	inco1	226	12.8%	23.5%		
	inco2	607	34.5%	63.0%		
<b>.</b>	inco3	293	16.6%	30.4%		
	inco4	50	2.8%	5.2%		
	inco5	82	4.7%	8.5%		
	inco6	151	8.6%	15.7%		
	inco7	352	20.0%	36.6%		
Total		1761	100.0%	182.9%		
a. Dichotomy group tabulated at value 1.						

**Part 2:** Do the web scraping and data wrangling of the following websites and show the final cleaned data in a single file:

- 1. <a href="https://data.covid19india.org">https://data.covid19india.org</a> (two JSON files)
- 2. <a href="https://agicn.org/city/kathmandu">https://agicn.org/city/kathmandu</a> (aqi forecast table)

Part 3: •You must search and download the first 10 free pdf files of "Data Mining" topic using Google Scholar (https://scholar.google.com/) (Remove duplicate file/s, if required)

- Place these 10 pdf files in a folder /directory named "MDS503P2"
- Set your working directory as "MDS503P2" in R using code to work with these files
- Install and use the "pdftools" package to read these ten pdf files from MDS503P2 in R Studio
- Once you read them in R studio then create a "corpus" and perform text mining using step-by-step process i.e. pre-processings (with or without stemming), TDM creation, frequency of the most frequent terms, associated terms of the most frequent term, word cloud using a sensible minimum frequency and topic models with interpretations as per session 11 slides

Note: Do not forget to submit the R Script file, R markdown file and knitted pdf report file of the Project work (Project 2:Unit 2) in Google classroom along with the link of the recorded video explaining each step (**DO NOT UPLOAD THE VIDEO FILE!**)