1. What are the questions that a data scientist can ask on Covid-19 data?

Think of some good questions and then categorize your questions as descriptive, exploratory, inferential and predictive.

Q1:How Data Science Is Being Used to Understand COVID-19

A:We could build a complete statistical system that could measure the latest number of cases, cures and deaths. The patient's whereabouts can be counted, and when we input the relevant address, we can query whether we have been in contact with the patient.

Q2:How to use data science to predict the future development of COVID-19

A:We can collect the latest data of each government and analyze the data by considering seasonal, social, economic and other development factors. Then, based on the conclusion of analysis, we can predict the development trend of the epidemic in the future and help people in related areas to come up with the most appropriate epidemic prevention measures.

2. Web scraping with R

```
#loading the package
library(xml2)
library(rvest)
library(stringr)
url<-"https://www.amazon.in/CERTIFIED-REFURBISHED-OnePlus-Mirror-Storage/
dp/B07JDZL7ZN/ref=dp_prsubs_2?pd_rd_i=B07JDZL7ZN&psc=1"
webpage <- read html(url)
#titele
title html <- html nodes (webpage, 'h1#title')
title <- html text(title html)
head(title)
str_replace_all(title, "[\r\n]", "")
print(head(title))
#price
price html <- html nodes (webpage, 'span#priceblock ourprice')
price <- html text(price html)</pre>
print(price)
str replace all(title, "[\r\n]", "")
head (price)
desc_html <- html_nodes(webpage, 'div#feature-bullets')</pre>
desc <- html_text(desc_html)</pre>
desc <- str replace all(desc, "[\r\n\t]", "")
desc <- str trim(desc)
head (desc)
#rate
rate html <- html nodes (webpage, 'span#acrPopover')
rate <- html_text(rate_html)</pre>
rate <- str_replace_all(rate, "[\r\n]", "")
rate <- str_trim(rate)
head (rate)
#size
size html <- html nodes(webpage, 'div#variation size name')</pre>
size html <- html nodes(size html, 'span.selection')
size <- html text(size html)
head(size)
#color
color html <- html nodes(webpage, 'div#variation color name')</pre>
color html <- html nodes(color html, 'span.selection')</pre>
color <- html text(color html)
color <- str_trim(color)
head(color)
product data <- data.frame(Title = title, Price = price, Description = desc,
Rating = rate, Size = size, Color = color)
str(product data)
library(jsonlite)
json data <- toJSON(product data)
cat(json_data)
```

