

# STA 326 2.0/ ASP 454 2.0/ CSC 381 2.0 Programming and Data ANalysis with R

## Mid Semester Examination Assignment - 30 Marks

### Individual project: Coronavirus country report

The project represents 30% of your final grade for STA 326 2.0/ ASP 454 2.0/ CSC 381 2.0.

#### 1. Guidelines

I have assigned a country to each of you. You need to write a brief report by analyzing coronavirus data for the country that I have assigned. The report should be written in Rmarkdown and the output format should be HTML.

In order to view name of the country corresponds to your index number use the steps give below:

##### Step 1

Install devtools package.

```
install.packages("devtools")
```

##### Step 2

Type the following code to get access to the sta3262 package. This package provides a function to view the country. Please note that you may have sta3262 already installed in to your machine. However, you should reinstall sta3262 in order to get access to the updated information.

```
library(devtools)
devtools::install_github("thiyanagt/sta3262")
```

##### Step 3

Load the sta3262 using the command

```
library(sta3262)
```

##### Step 4

To view your country,

```
get_individual_project_country("AS2021000") # type your index no. within ""
```

Please send me an email if your index number is not in the list or if the function outputs character(0).

#### 2. To obtain coronavirus data corresponds to your country

```
install.packages("coronavirus")
library(coronavirus)
```

You can download coronavirus data from the coronavirus package in R. This help file here [https://hellor.netlify.app/slides/coronavirus\\_assignment\\_help\\_file](https://hellor.netlify.app/slides/coronavirus_assignment_help_file) gives some useful hints on how to extract and visualise relevant data from the package.

#### 3. Project content:

- i. Brief introduction of the country:
- ii. Exploratory Data Analysis

- Visualization of death, confirmed, recovered, active cases
- Comparison with other countries
- etc

iii. Conclusions and Discussion

iv. References

Please click here to view the last year reports: <https://hellor.netlify.app/coronareports/>

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Please do not include any external images.

#### **4. Marks**

Content: 30 Marks (Data Analysis and interpretation 20, Overall format - 10)

#### **5. Submission**

Please submit .rmd file and .html file. Please name the files using your index number.

Example: AS2021000.rmd and AS2021000.html

#### **5. Deadline**

2 August 2024, 8.00AM (IST)