Spectrum Club,

College of Engineering and Technology

Bhubaneswar

www.spectrumcet.com

Dear Intern,

Welcome to **MATLAB Task 1.**

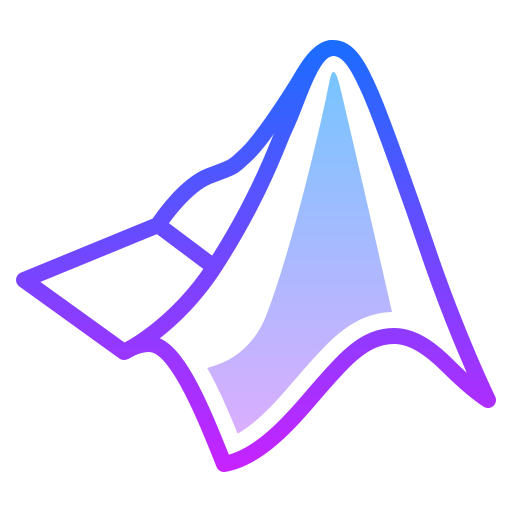
**Technology Stack to be used:**

I am expecting that all of you must have completed the MATLAB task\_0.For this task you need not need to install any of the extra libraries or toolbox.

**Tasks:**

**Create a GUI to show graphs for no. of patients and deaths due to COVID-19 with respect to days .**

1. First create a GUI which would have 1 **pop-up menu** and 3 **push buttons** and 2 **edit text.**
2. In the pop-up menu it should content 5 countries names.
3. The push buttons should be name accordingly

1st  :-**Confirmed,** 2nd :-**Deceased,** 3rd :-**Both**

1. When the user selects any of the countries and then press one of the push button,

1st will show a plot of confirmed cases

2nd will show a plot of deceased

3rd will show both(use subplot command)

\*note:-for that country only\*

1. And the 2 texts boxes will show the total no of confirmed and total no of deceased.

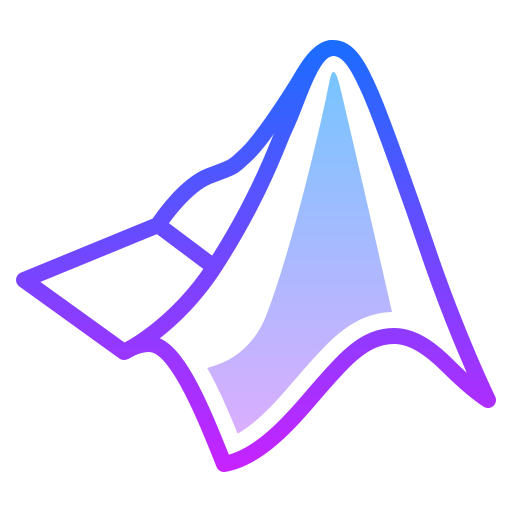
\*note:-for that country only\*

1. All the data required for plotting is provided in the form of excel sheet(data.xls).
2. Import all the data required for the plotting from the excel sheet.

**RESOURCES: -**

The resources provided here include both documentation and YouTube tutorials for the above tasks. If any case of any confusion, do Google once and search around or ask in the forum, but do understand the concepts behind the functions properly.

**(Documentation):-** [https://](https://numpy.org/doc/1.18/genindex.html)**[web.njit.edu/~ft54/4thEditionMatlab.pdf](https://web.njit.edu/~ft54/4thEditionMatlab.pdf)**

**(GUI Tutorial):-**  
 https://www.youtube.com/watch?v=Ta1uhGEJFBE

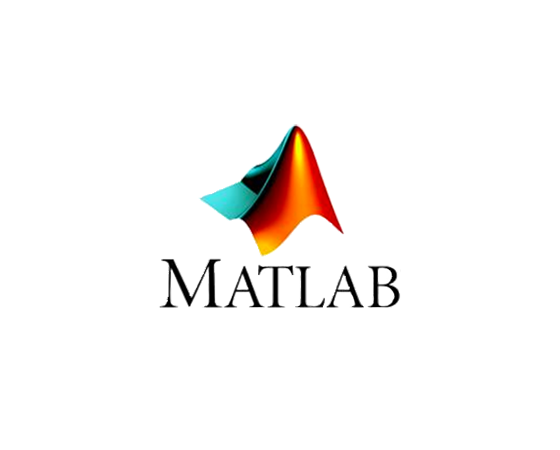
**(Import Data):-**

<https://www.youtube.com/watch?v=0hArv-UBKQQ>

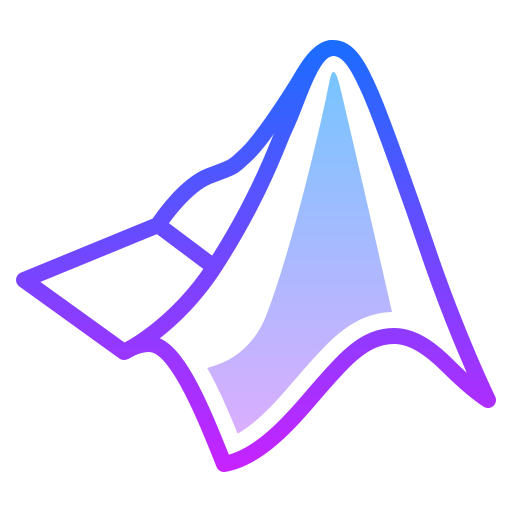
Feel free to ask doubts

That’s it for now, hope you weave a really good story at the end of this internship.

Good luck!



WARM REGARDS,

**SPECTRUM, CET-B**