

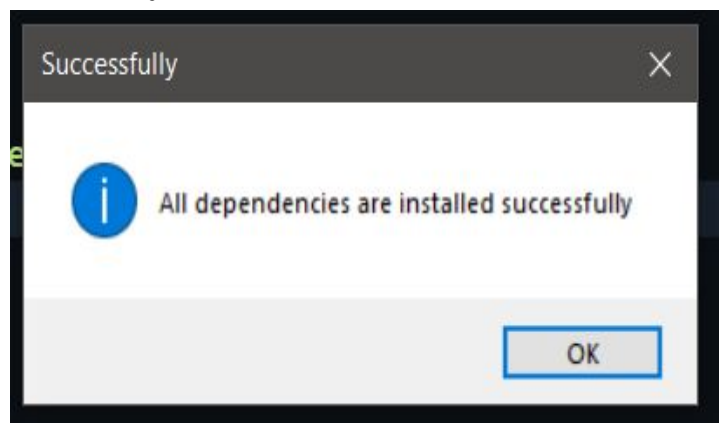
## INSTRUCTIONS

- All the Programmes are written in python . And for calculation we have used numpy and for plotting we have used plotly-express , matplotlib.
- Before Running the program you have to install numpy,plotly,matplotlib.

(Below Commands require Internet Connection)

- In the Main folder there is a python file “dependencies.py” first run that python file.It will download all the required libraries and after that a message will pop-up “All dependencies are installed successfully” .

PS:- If all libraries will be downloaded successfully a window will pop-up like this.It will definitely take some time to install all.



- All the codes are present in the “codes” folder and you can run one by one two test each plot.
- When the files are runned the plot will be opened in a new tab where you can interact with the plot (on hovering over the data points).
- There is special Folder “Named Interactive Plots” where some interactive plots were already saved in web page format you can open and interact with the plot (NO LIBRARY OR INTERNET REQUIRED FOR THIS PLOTS)

**BUT SOMETIMES DUE TO DIFFERENT VERSIONS OR SYSTEM ERROR CODES MIGHT NOT RUN DUE TO UNAVAILABILITY OF LIBRARIES SO YOU CAN FOLLOW INSTRUCTION MENTIONED BELOW (MOST EASIEST WAY)**

**Instruction For running without installation of libraries**

- We have uploaded the same code in google-colab where you can run and see the plots without installing the above dependencies.

**The Link Is Attached Below**

<https://colab.research.google.com/drive/1Dww6zIM4wXAiy0F9ETxFGyCH0YB3Wgrd?usp=sharing>

(Just Open The Link and scroll down to see all codes and output .You can also run by selecting "Run All" from Runtime Tab)