1. I have created a head start point for everyone in task1. The link of dataset is attached in txt file, can be found in repo section. You need to download the file using the same link. A popup will ask about the username and password. Enter details as

username: [ineuron22@gmail.com](mailto:ineuron22@gmail.com)

Password: Preeti123

Then the download will automatically start.

1. Now open you python IDE and install and import following libraries

import netCDF4

import pandas as pd

import numpy as np

import matplotlib.pyplot as plt

import matplotlib.animation as animation

import xarray

import plotly.express as px

from datetime import datetime

import os

1. Next import the dataset into the python IDE.

data\_xco2 = netCDF4.Dataset(file path)

1. The dataset is in form of nested dictionary and keys can be found out by list(data\_xco2.variables.keys()) command.
2. Our aim is to download data from 2015 to 2021 and for the region Kenya.
3. Challenge is we need to figure out how to extract the Kenya data

Task for everyone:

1. Understand the data set and how to extract it in a readable form
2. We need to decide what columns are necessary for our analysis (For this understanding of problem statement is necessary).
3. Finally Visualize the data