I have made two excel sheets containing two data sets:

i.)**Ingredients of chicken soup**

This chicken soup is made with a special recipe cooked up by my late grandmother. She was always the cook of the house and when she passed away she left us with something to remember her by, which was that recipe. My father took it upon himself to learn and master the recipe, and whenever I'm down with a cold I am reminded of her warm embrace every time that hot soup touches my lips. It is truly something special and something every good cook should have in their arsenal.

In this spreadsheet my main goal was to be able to provide a **structured manner of providing the ingredients of this soup** which is the data in this data set. In the spreadsheet I have included every ingredient required to make this dish and have subcategorized them into vegetables, meat, seasoning, etc. Each ingredient listed has been carefully noted with its **quantity, calorie count, and its specific role** in the recipe—from providing nutrition to enhancing flavor. For instance, the chicken acts as the **protein-rich main ingredient**, while vegetables like potatoes and carrots contribute **carbohydrates and essential vitamins**. Seasonings such as salt and pepper serve as **taste enhancers,** and butter provides **richness to the broth**. Even the inclusion of water has been mentioned, highlighting its role in forming the base of the soup.

ii.)**Utensils in a kitchen**

The most important part of a kitchen are its utensils, like tools to an artist. The utensils of our kitchen are tools used to make art. This data set shows us how many times in a day we use certain utensils along with their descriptions. From spoons and forks at our dinner table to woks and frying pans used to cook up our favourite dishes. Our utensils are like silent heroes working from the shadows not seeking recognition, but making everything function seamlessly behind the scenes.

The spreadsheet categorizes the utensils into types such as plates, eating utensils, cookware, cups, and bowls. It details not just the names and materials of each item, but also how frequently they are used and their specific roles in the kitchen. For example, the **spoon and fork**, made of steel, are used **five times a day**, reflecting their central role in daily meals. The **pressure cooker**, **frying pan**, and **tawa** showcase the tools essential to Indian-style cooking, each used regularly to prepare hearty meals.

Notably, the materials range from **glass and steel to aluminium, porcelain, and ceramic**, indicating a balance between durability and aesthetic function. The frequency of use column emphasizes the practical importance of each utensil

In both of these data sets I have represented different aspects about each item in a structured format such as calorie count for the ingredients and the number of uses per day of each of the utensils. The aim of this assignment was to be able to **present data in a structured and clean format.** In each of the data sets I have clearly stated the main criterion or requirement for each item that is a part of the data set.

The process of creating both of these data sets was **intimidating** at first since I never had to deal with any task similar to this before. I was a bit confused as to how to properly display all the data I had gathered in a structured manner, or what specific data to display about each of the items, for example what **criterion to put for each of the items**. I managed to apply some basic ms excel skills to build the table and filled it with the appropriate contents. I was still unsure if this was what was required in the assignment yet I submitted it anyway because I believed that regardless of what the contents of the data set are, the main objective was to **represent it in a structured and clean manner** which I hope to have accomplished in this assignment.

i.)Installing WSL (Windows Subsystem for Linux):

To begin, I enabled WSL on my Windows system. I opened **PowerShell as Administrator** and ran the command:

wsl --install

This command installs WSL along with the default Ubuntu distribution. After a restart, I was prompted to create a Linux username and password.

I confirmed the installation by typing wsl in the command prompt, which brought up the **Ubuntu terminal**.

ii.)Installing Miniconda in WSL:

I then downloaded Miniconda using the link given on the Ashoka website.

iii.)Creating a Conda Environment:

I opened **Anaconda powershell prompt** and created a new Conda environment. For example, to create a Python 3.10 environment named horizons 25:

conda create --name **horizons 25** python=3.10

I then activated it using:

conda activate horizons 25
