* Q1)

The three stages of the reproducible workflow are:Data Collection, Data processing, and Data analysis,. Here's an example of how these stages could be implemented for the given table:

**1) Data Collection**

The should be entered into a spreadsheet program and saved as a CSV fil

Once this file is created, it should be given a name and saved in a useful location. (raw\_Fraility.csv)

At the same time that data are saved, a metadata file should also be created and saved with it.

* + Frailty codes indicate Person suffering with Frailty(Y), Person not suffering with Frailty (N).
  + Height in inches ,Weight in Pounds

**2) Data Preparation**

In this stage, we'll focus on cleaning and preparing the raw data.

Work to be done:

* Check for missing values
* Check for outliers and errors
* Add any necessary metadata or annotations

Folder structure:

* Frailty\_project/
  + data\_raw/
    - raw\_Frailty\_data.csv
  + data\_clean/
    - raw\_Fraility\_data\_cleaned.csv

**Data Analysis**

In this stage, we'll perform exploratory data analysis and create visualizations to gain insights from the data.

Work to be done:

* Generate descriptive statistics
* Create visualizations to explore relationships between variables
* Perform any necessary statistical analyses

Folder structure:

* results/
  + descriptive\_statistics.ipynb
  + data\_visualization.ipynb
  + statistical\_analysis.ipynb
  + figures/
    - histogram\_height.png
    - scatterplot\_height\_weight.png
    - boxplot\_frailty\_grip\_strength.png
* Create a report summarizing the data and analysis
* Create visualizations and graphics to support the report
* Share the report and visuals with stakeholders