**Ques-1:**

**a. Folder Structure**

**|- - PDS\_Assignment\_1**

| | |- - README.md

**| |- - Ques\_1**

**| | |- - src**

| | | |- - Q1 Analysis.ipynb

| | | |- - clean\_data.ipynb

**| | | |- - results**

| | | |- - Q1 Documentation

| | | |- - Correlation Heatmap of Numeric Variables.png

| | | |- - Box Plot of Grip Strength by Frailty.png

| | | |- - Histogram of Features.png

| | | |- - Frailty Count.png

| | | |- - Scatter Plot Matrix.png

**| | |- - data\_raw**

| | | |- - raw\_data.csv

**| | |- - data\_clean**

| | | |- - clean\_fraility.csv

**b. Three Stages of workflow**

**Stage-1: Data Collection**

The data that was given in question-1 was copied and saved into raw\_data.csv under the data\_raw folder.

**A table with numbers and letters

Description automatically generated**

For further processing and analysis, the above file raw\_data.csv was loaded into Jupyter Notebook.

**A screenshot of a computer

Description automatically generated**

**Stage-2: Data Processing**

**A screenshot of a computer

Description automatically generated**

**Stage-3: Data Analysis**

The below picture shows the analysis that was performed on clean\_data.csv. The below picture shows the distribution of height and box plot model of Height and Grip Strength features.

The below script which is used to analyse the clean data was saved under the src folder with name Q1 **analysis.ipynb.**

**A group of graphs with blue and orange dots

Description automatically generated**

**A screenshot of a computer

Description automatically generated**

**A graph of different heights

Description automatically generated with medium confidence**

**A screenshot of a graph

Description automatically generated**

**A screenshot of a graph

Description automatically generated**