

Consider the `Index.csv`. In this dataset, we have the following information on 500 persons: **Gender**, **Height** (in cm), **Weight** (in kg), and **Index** (0: extremely weak, 1: weak, 2: normal, 3: overweight, 4: obesity, 5: extreme obesity). Complete the following:

1. In Python, answer the following:

- (a) (3 points) Using the pandas library, read the csv datafile and create a data-frame called **Index**.
- (b) (3 points) Create a bar chart of the **Gender** variable. Comment on the plot.
- (c) (3 points) Create a histogram of the **Height** variable. Comment on the plot.
- (d) (3 points) Create a scatter plot of **Height** and **Weight**. Comment on the plot.

2. In R, answer the following:

- (a) (3 points) Using the `read.csv` function, read the csv datafile and create a data-frame called **Index**.
- (b) (3 points) Create a bar chart of the **Index** variable. Comment on the plot.
- (c) (3 points) Create a side-by-side boxplots of **Height** for **Male** and **Female**. Comment on the plot.
- (d) (3 points) Create a side-by-side boxplots of **Weight** for **Male** and **Female**. Comment on the plot.