**README**

Below are the steps taken by me to complete the Assignment 1. Also, I have tested my code using Gradescope and it is passing all the required test cases.

**Step1.**

Importing pandas and numpy libraries in python script.

**Step2.**

Reading the given “CGMData.csv” and “InsulinData.csv”.

**Step3.**

Deriving a feature “Date + TimeStamp” for CGMData which is the concatenation of “Date” and “Time” features of CGMData.

**Step4.**

Finding out the unique dates to be removed based on the null values.

**Step5.**

Deriving a feature “Date + TimeStamp” for InsulinData which is the concatenation of “Date” and “Time” features of InsulinData.

**Step6.**

Finding out the start of Auto Mode.

**Step7.**

Finding out the start of Manual Mode.

**Step8.**

For accuracy purposes, I am considering only those values which have more than 70% of the data values for both Auto Mode and Manual Mode.

**Step9.**

Then, I am calculating the Hyperglycemia and Hypoglycemia values for Auto Mode and Manual Mode as specified in the Assignment description for Daytime, Overnight and Wholeday.

**Step10.**

Calculating the count of Manual and Auto Mode days which will be used for the calculation of mean values.

**Step11.**

Setting up the header or column names in the order as specified in the provided “Results.csv”.

**Step12.**

Setting up the dummy values of 1.1 for both types of modes making the matrix of size (2 x 19).

**Step13.**

Finally append the results in “Results.csv”.