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Final Project Summary

For my final project I am creating a program called MediPhysical that will act as an at-home physical. The program user will input their personal information such as height, weight, sex, etc., and the program will output a user profile for them that has the health statistics they input, calculate new statistics from the ones provided, and recommendations based on these results. This program contains a class User that constructs an object where all the attributes of the __init__ constructor have mutators/setters and accessors/getters. The class will also contain methods that use the getters to perform calculations and diagnoses.

While the program obviously cannot perform lab tests such as urinalysis, basic metabolic panels, or throat culture, the program is useful because it can still provide health analyses that the user may not be aware of, and can then address themselves, all without having to travel to, and pay for, a doctor's visit. MediPhysical is directly useful in that it is convenient, saves time, saves money, and provides a helpful service to a user's health. It is also indirectly useful to busy healthcare providers that are already are overbooked with patients. This type of program could alleviate their schedules, as well as give more availability to the patients with more severe health issues that need to be seen more frequently. It also gives more availability to other patients in general, so that instead having to wait several weeks to see a doctor, a person might only have to wait a few days or a week.