My statistical question looks at student lifestyles and how how a student chooses to spend their time affects their GPA. My hypothesis is, if a student spends more time outside of class working on assignments and studying, their academic success (GPA) will be higher than those that spend their time on activities not related to course material. Overall, I think this data was great for finding these results. As predicted, students who spent more hours per day, on average, studying were seen to have a higher overall GPA. Students that spend their time doing other things, like physical activity, tend to have a lower GPA. For most cases, this makes sense. A person only has so much time in a day and must choose how to spend it wisely.

I feel like some of the variables were missed. If I were to conduct this analysis again, I would like to go more in depth on how the different variables affect each other. While the ones I primarily looked as had a large effect on the result, I feel like including other variables could potentially make the results more accurate.

I would have been interested in seeing how much time was spent on leisure activities. Today, people often spend hours doing things like watching tv, playing on their phone, etc. I would have been interested to see how that affected the data. I also wish there was more information about how the numbers were determined by students. My ideal way of collecting data would be for students to allocate the average time they spent on each activity (sleep included) a day for the total to equal 24 hours. I feel this would give the best results.

One assumption that I made that was proven incorrect, was that students who get more sleep would, on average, have higher GPA. I assumed that if a student was well rested, they were more likely to perform better in class. However, this did not prove to be the case. The reason for this could possibly be, that for each student, more sleep could mean less hours for any other activities. When they choose to get more sleep, it could be taking time away from Studying or Social Activities, each of which effect GPA in a different way.

One challenge I faced was not fully understanding the analytical distributions. I struggled with the code and was not confident in my ability to interpret the results. I also would have liked to have more information about how the data in the data set was collected.