1. **Where you think this may or not be useful to the type of work you are interested in?**

As we are working on the R studio and R Shiny app this week, I wanted to elaborate the usefulness of these two programs in the work I do, or I want to do in the future.

I have used R Studio and a few tools in R for my Transportation System Analysis course this semester. For that course, we used the curve plotting (“ggplot” in R), multinomial logit (“mlogit” in r), the “tidyverse” function in R and non-linear modeling (“nlm” in R) functions. I have witnessed the functionality of this program. I have been working with a large set of data for my research for the past two semesters. At the same time, I am interested in transportation data analysis. After working with R for a couple of class projects, I believe that R would have been an excellent platform for conducting what I am doing. Not only because it is an open-source program, but also the functionality, user-friendly interface and resource availability make it a great program to work with.

I am working on Hedonic Regression Model (which is a type of multiple regression model) for my thesis. For that purpose, I have been using JMP. However, I believe, R would have been helpful in not only performing the regression models, but also plotting the residuals, or creating the QQ plot, normality graph or other visualizations. As I am already done with most of these works, I am not going to imply R right now in these works. However, as I am planning on working on transportation planning and engineering in the coming days, I want to utilize R in my works.

I did not know about Shiny before this class. However, as I get to know some information about it, I am interested in incorporating it in my future works as well. Part of transportation planning datasets and website work includes providing real-time information on specific road area, interactive maps. Reading the details regarding Shiny, I think it might be an excellent option for doing that in an orderly and efficient way.

1. **If you were going to teach yourself how to use these tools what would your education plan be-**

If I need to teach myself these tools, I will follow some simple procedures. First, I will go through the R Studio manual. It has a decent manual with all the details anyone might ever ask for. I will try to know about basic R then I will move forward to the others. Secondly, I would go through the tutorials available online. For example, Professor Seegar had shared a few sources where both examples of previous works are available and tutorials to practice those on my own. Simultaneously, I would watch YouTube tutorials and use Lynda for tutorial videos and practice it. Lastly, I will try to practice and create an interactive web map using my own data and publish it.