**Reflections and Challenges**

The final project I choose is on Simulation of Computer Resources. Some challenges I encountered occurred before I even began programming my project. Initially, I planned on including a lot more components than I was able to include in the end. The first thing I hoped to include was a way to import real-world map data to generate in the traffic simulation. After spending a couple weeks researching this possibility, I concluded that the amount

Firstly, I have started to implement Factory and Iterator Pattern to view the resources essential to computers. Showing all the resources and viewing the status of computer is biggest challenge I encountered. I implemented the state pattern to print the status of computer and to print the Resources.

Display and processor are the resources and in that the types of resources also mentioned. Types of Displays and Processors are shown for installation. And to display all types of resources for Display and processor I have implemented Iterator pattern to iterate the types of resources.

The biggest challenge I faced here is to print selected resources and maintain the count of selected resource. So that alerts and warnings are printed along with that .

So, I plan to keep on working on the project. I’m going to be adding the following:

1. Storing the selected resources with their count to implement command pattern.
2. To maintain the Database for storing the resources and updating them as are selected.