# Project 3, Report: COP3813/002

## SET UP: BOOTSTRAP, CHROME, NOTE++

For this project I decided to attach the "scrolling-nav" style layout to the bootstrap core template. I like the idea of having all the content in one page with clickable navigation links that scroll to page sections.

## FUNCTIONALITY: UNIT CONVERSION CALCULATOR WITH EQUATION SOLVER

I designed a temperature and pressure calculator to be used as a tool for inputting data on the Gay-Lussac's law equation solver. My program uses a function that rounds or displays the output in scientific notation depending on the input provided. The main data processor function was also designed to check for invalid input and alert the user of such. Finally, a main function that calls all other functions was implemented with the use of several Boolean flags that evaluate to true when the various buttons are pressed.

## Challenges: Learning Java Script.

Even with some experience in other languages like Java and C++ I found myself having to do a lot of research on what methods I could use to accomplish what I wanted. During multiple sessions of trial, error and debugging with the console I was finally able to get a sense of Java Scrip syntaxy's, and I must say I am an instant fan. I am shocked that I was never exposed to this fantastic tool in the past, given how incredible versatile and useful it is.

## TIME CONSUMPTION

This time, it only took me a couple of days to get my site where I wanted it. The learning curve for Java Script is not that high if the fundamentals of programming are well understood.

**TESTING BROWSERS: CHROME, FIREFOX, EDGE**

The page works on all browsers with the usual background color change on Edge. The site is also responsive and fully operational on smaller devices.

Lessons Learned:

- Basic understanding of Java Script's loosely typed language and operations.
- Java script potential and applications in other fields.
- Interaction between Html and Java Script within the same page.