**Part A: Project statement**

My project’s purpose is to design a sensor that can alert the user that someone is breaking social distancing (i.e. standing closer than 6 feet from the user) and alert the user using a buzzer and LED lights. This device could both be carried by a singular person or be used for areas where people are most likely to gather like a library or on the line at Tim Hortons for example. This project could be useful as many people forget the importance of social distancing.

**Part B: Initial Constraints and Specifications**

* Will need a button to turn sensor on and off
* Sensor will have to sense at least 6ft away

**Part C: Asks**

**Part D: Preliminary BOM**

* Nucleo**-L4R5ZI**
* **USB A to Micro USB B cable**
* **3 LED lights(one red, one blue and one green)**
* **3 resistors**
* **At least 10 male to male jumper wires**
* **Ultrasonic transduce**
* **Buzzer**