**Capstone Final Project**

Introduction/Business Problem

Life is precious. Any threats to life needs to be dealt with swiftly, responsibly and in line with the laws of the land. The current COVID-19 pandemic has taught us the importance of swift action in the face of an invisible enemy. Scrutinising this pandemic further, there are several lessons learned which should be implemented at the soonest to tackle future pandemics. One such problem is the identification of appropriate screening locations. This project aims to present weighted (where the weights are the populations of the individual boroughs) k means clustering approach to identify appropriate locations within the city of Toronto, Canada for setting up of future ad-hoc virus detection centres. This project also aims to find if any parks are available vicinity of the chosen location as open air spaces is perhaps better for this purpose.