**COMP 4190 Assignment 3 Documentation**

**Part 1.**

**Part 2.**  **A\* Search**

A\* search is implemented in aStar.py file.

* **AStarSearch** class is implemented, which is to be used in “fpsb path planning.py” file’s main function.
* **Constructor** of **AStarSearch** takes in “**root**” node of the completed Quadtree, **initial** rectangle and **goal** rectangle.

**Functions**

1. find\_node( Node curr, Rectange rectangle)

Finds the node that contains the rectangle and returns that node.