**Question a**

Since we are checking if there is a path between two points on the map, we defined a function ***route\_exists (point\_a, point\_b)*** inside which we started breadth first search from ***point\_a*** to get all the visitable vertices from ***point\_a*** and finally checking any of the visitable vertices is ***point\_b***. Finally, we used if\_else statement to print out the if the route exits between two given points on the map.

**Question b**

We used DFS method from the start node and marked the current vertex as visited and pushed the visited vertex in the stack. Then, we loop through the adjacency list to ensure that the code continues for null vertices.