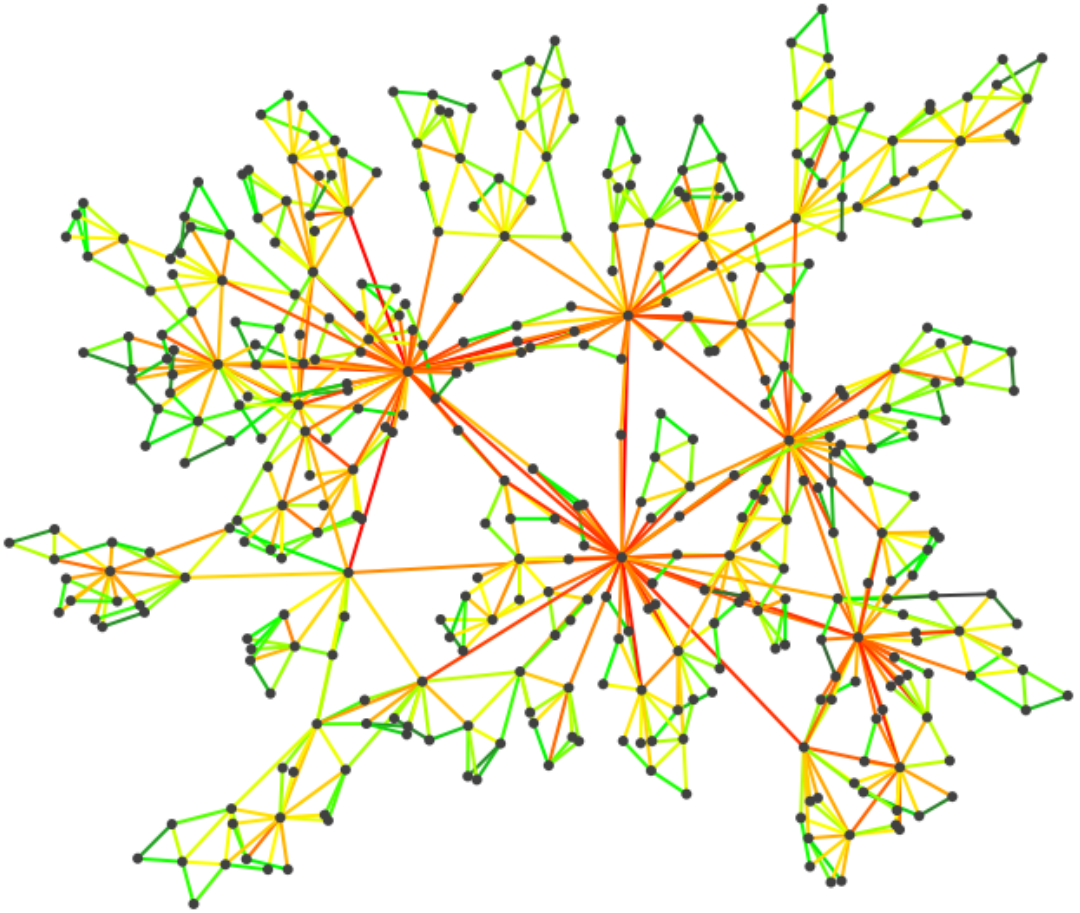


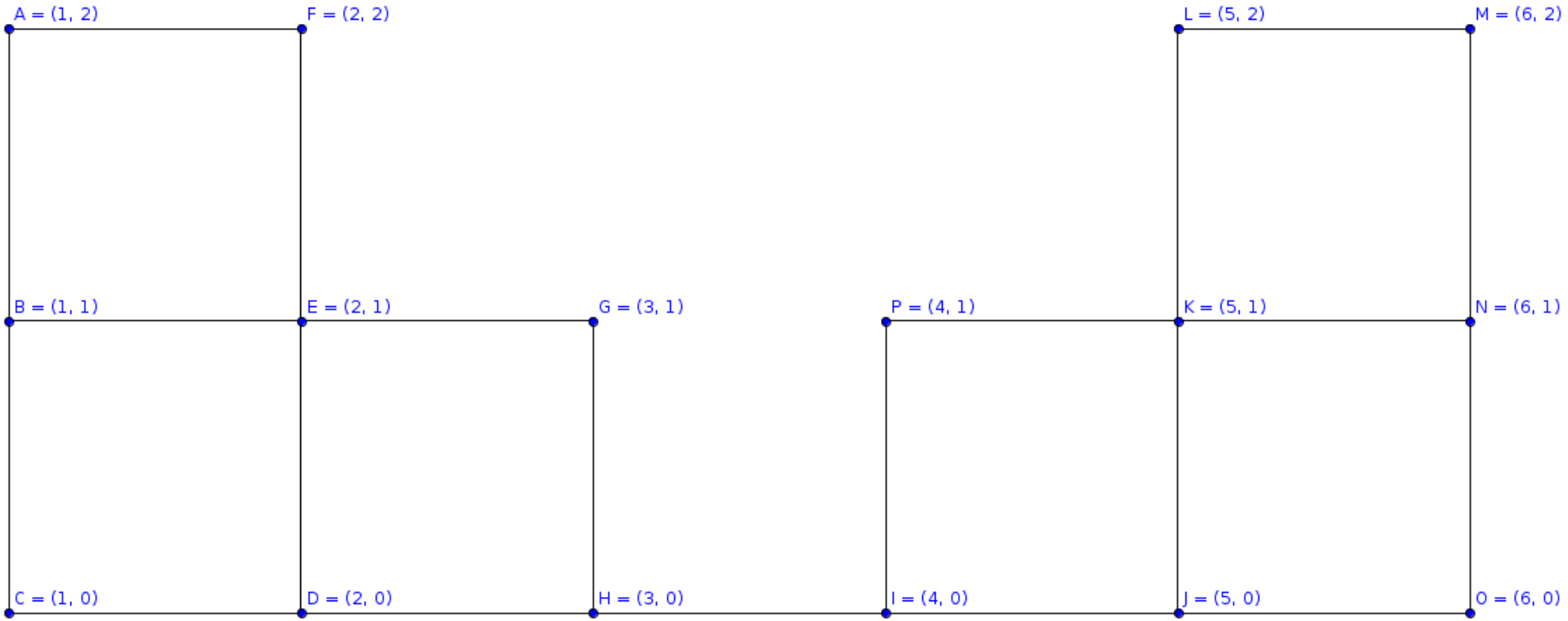
Route planning & schduling assignment

AITECH ROBOTICS

Problem statement

- Write a **traffic controller** to find the **shortest/optimal path** for **vehicle V1 & V2** to their destinations with the **least steps**.
- The traffic controller schedules the actions in terms of **step**. For each step a vehicle can either do the following actions:
  - Make a move to the next adjacent node
  - Stop & Wait
- The traffic controller has to ensure there **ain't vehicles can be at the same node at any given time**
- Routes:
  - Vehicle **V1** is at location **A** and its destination is **N**
  - Vehicle **V2** is at location **M** and its destination is **B**
- The program **ends** when both of the vehicles **arrived at their destination**.
- **Print** out the results in **console** for **each step**
- The program should make use of **dijkstra algirithm**(can be using library) to compute the shortest route.
- The program should be written in Python/Java or any object oriented programming

Graph – Nodes & Edges



** All the edges in the graph are bi-directional*
** V1's current position is at A and the destination is at N*
** V2's current position is at M and the destination is at B*