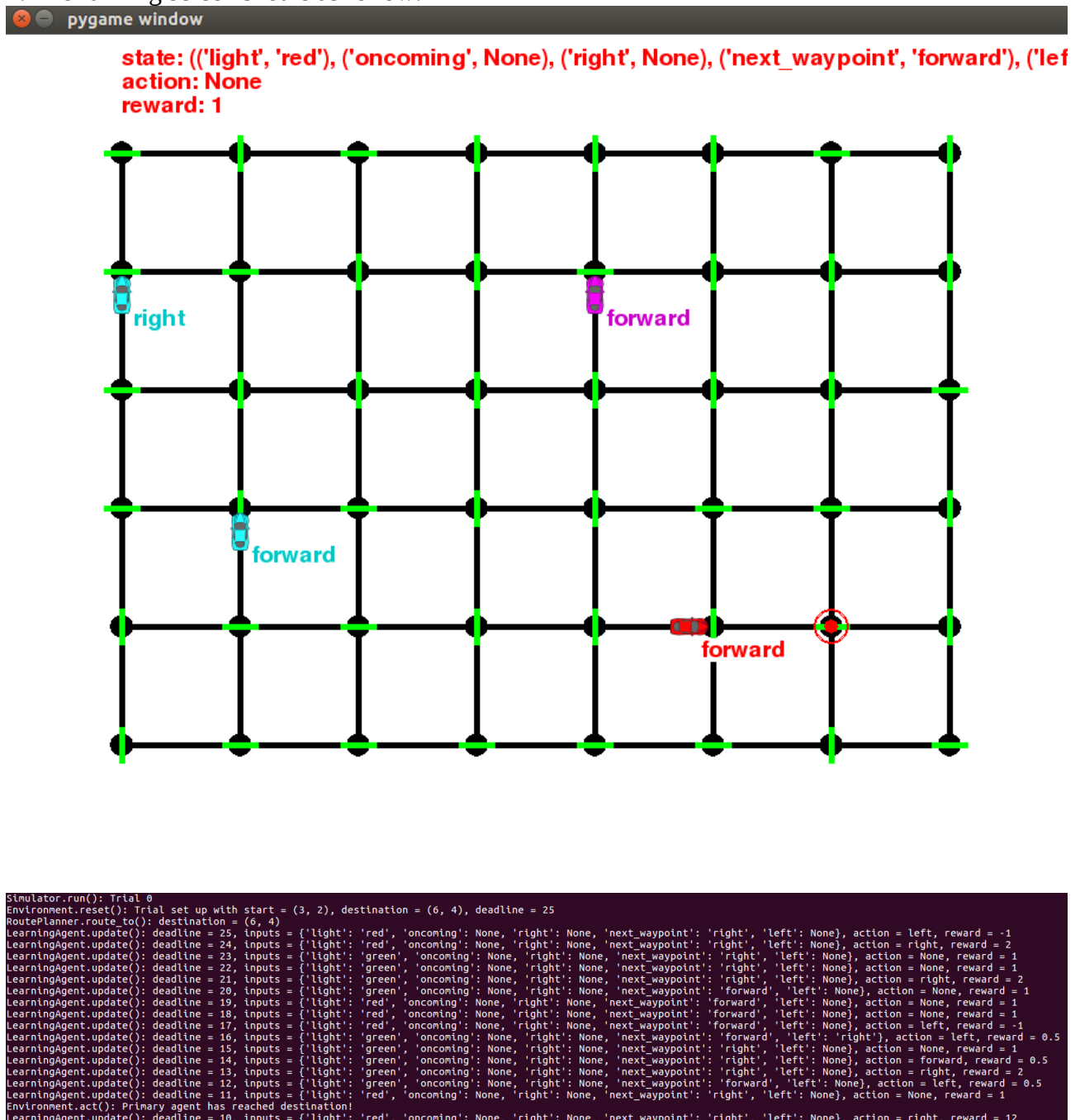


1. The running screen shot is as follow:



The red car is taking action randomly, but after a long time, it can reach the destination.

2.

State includes "light", "oncoming", "right", "left" and "next_waypoint". "Light", "oncoming", "right", "left" is important, these give agent whether it will get punishment by taking some actions. "Next_waypoint" gives the agent the right direction to go to the destination as soon as possible.

3. The agent will tend to follow the traffic rule and take positive reward actions and walk to the destination.

4. I have tried different combinations of alpha and gama, [(1, 1), (0.1,0.1), (0.2,0.1), (0.5, 0)], and find that (0.2, 0.1) can give good result, but it doesn't guarantee perfect destination reached, sometimes the car is always turning right and getting stuck. (0.5, 0) is a great choice, the car can find a good strategy to get to the destination very fast and achieve perfect performance.

The car basically find the best strategy, get to the destination very fast, and never get a negative reward.