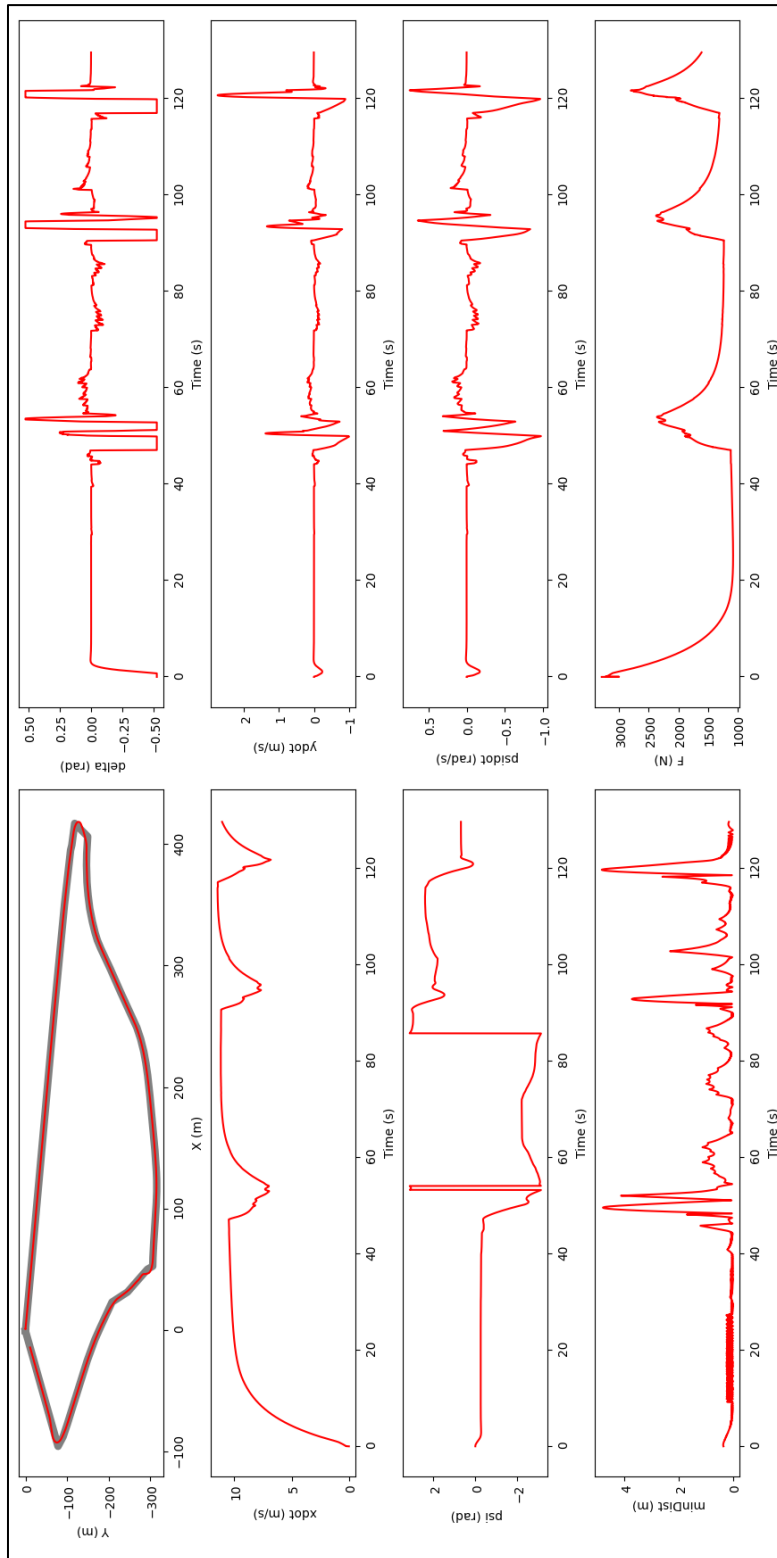


## Project: Part 3

### 24-677- Modern Control Theory- Modern Control for Robotics

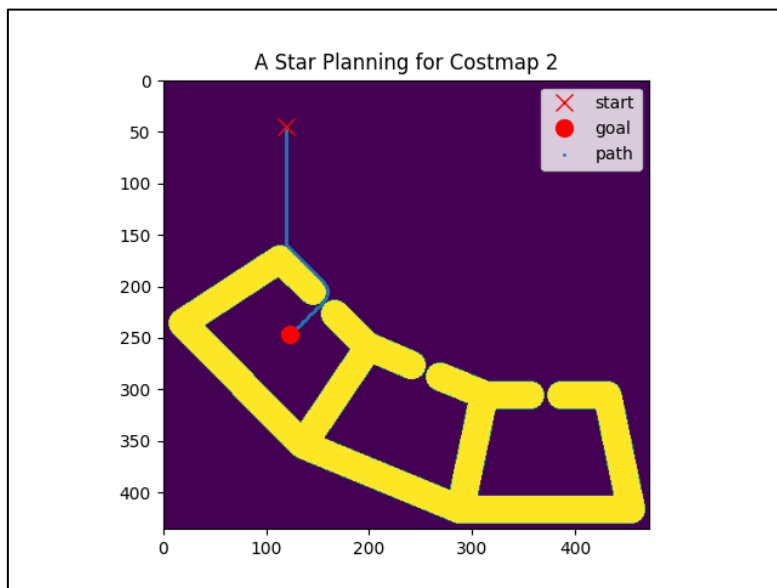
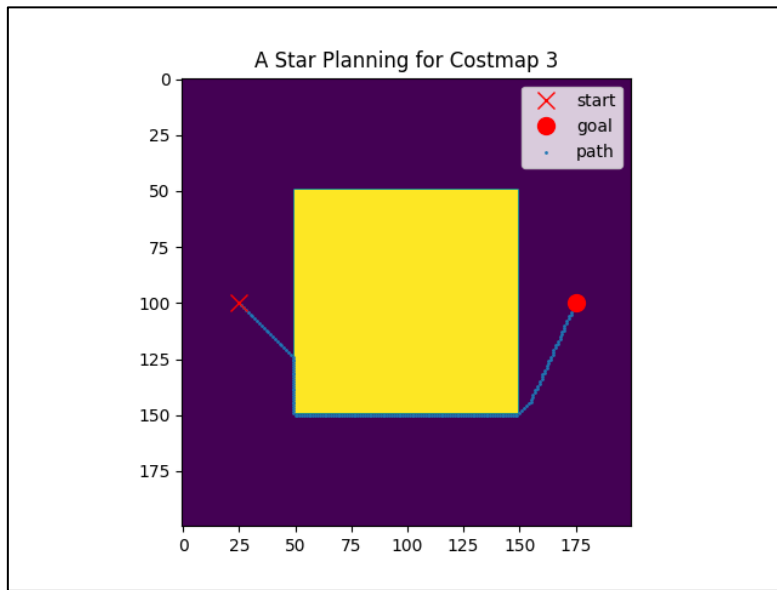
#### Exercise 1:

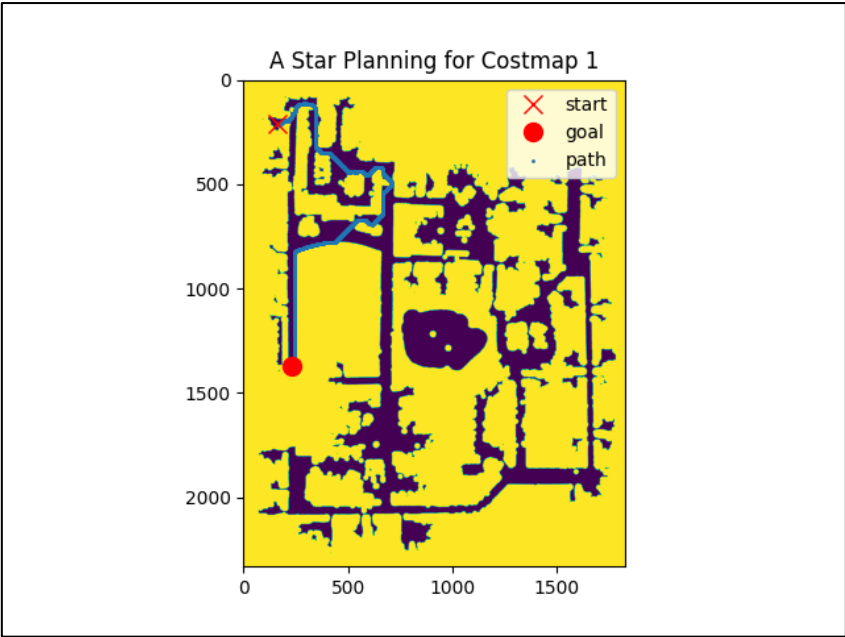


```
Evaluating...  
Score for completing the loop: 30.0/30.0  
Score for average distance: 30.0/30.0  
Score for maximum distance: 30.0/30.0  
Your time is 129.66400000000002  
Your total score is : 100.0/100.0  
total steps: 129664  
maxMinDist: 4.841316135941863  
avgMinDist: 0.4865939290005399
```

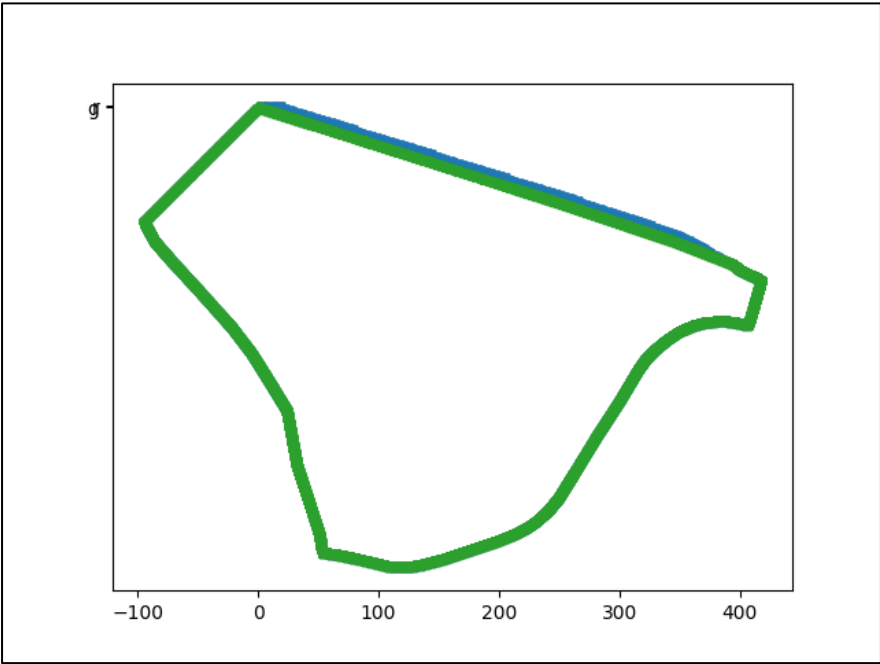
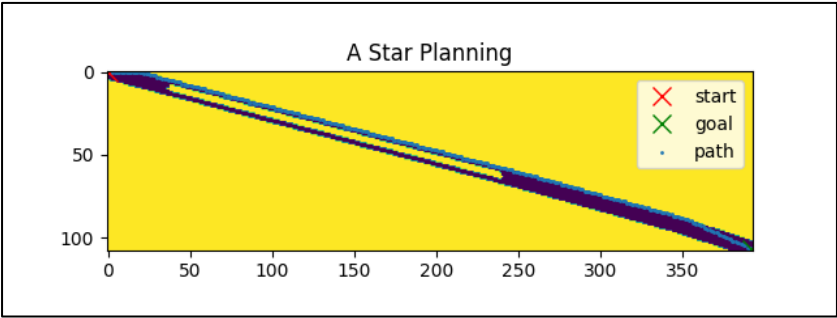
Total time taken- 129.66 s

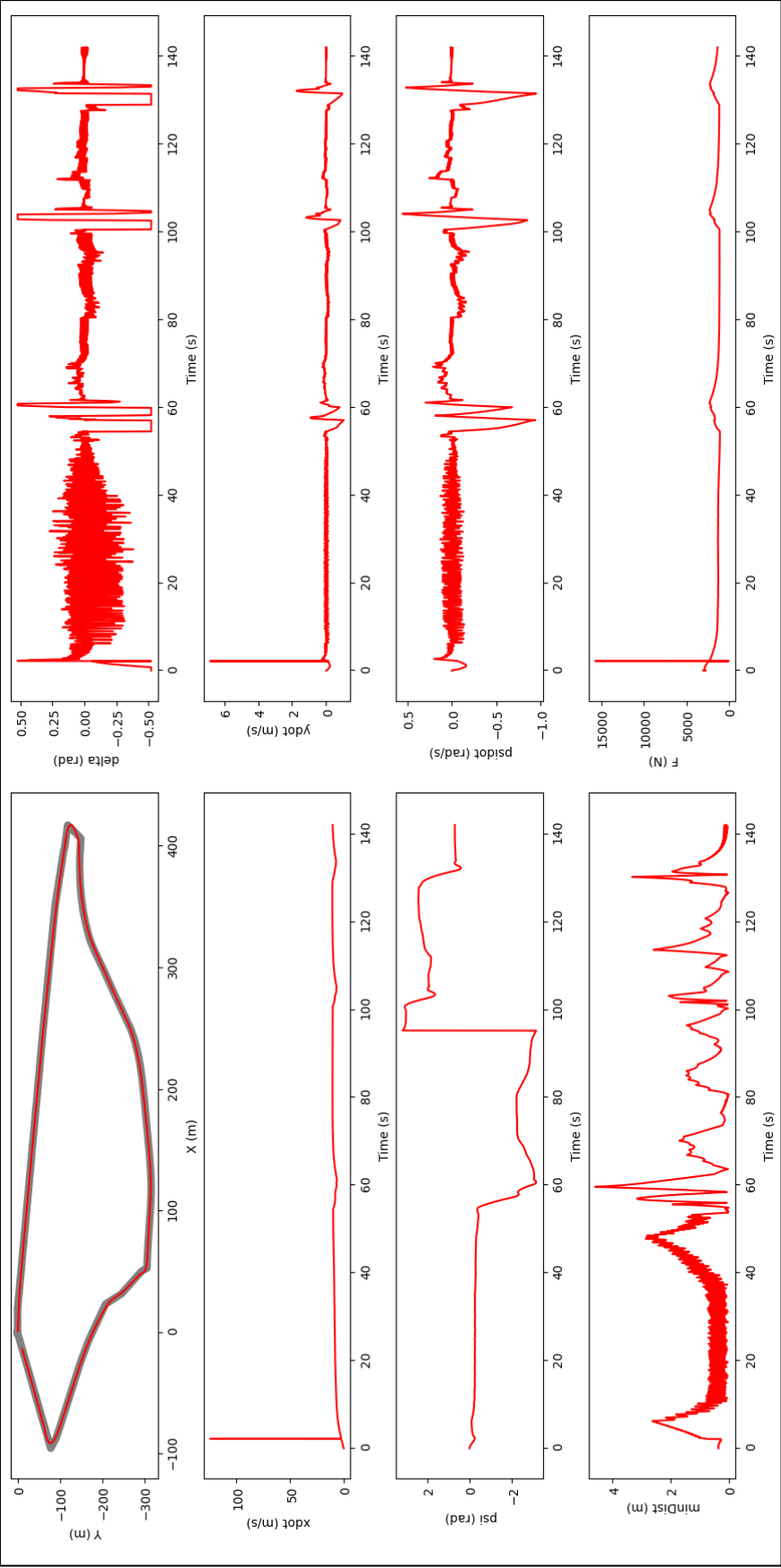
## Exercise 2:





Results of Astar:





```
[1 1 1 ... 0 0 0]  
[1 1 1 ... 0 0 0]  
[1 1 1 ... 0 0 0]]  
map size (108, 393)  
reach goal  
path length 393  
total steps: 142176  
maxMinDist: 4.59231172226585  
avgMinDist: 0.8271217306546331
```