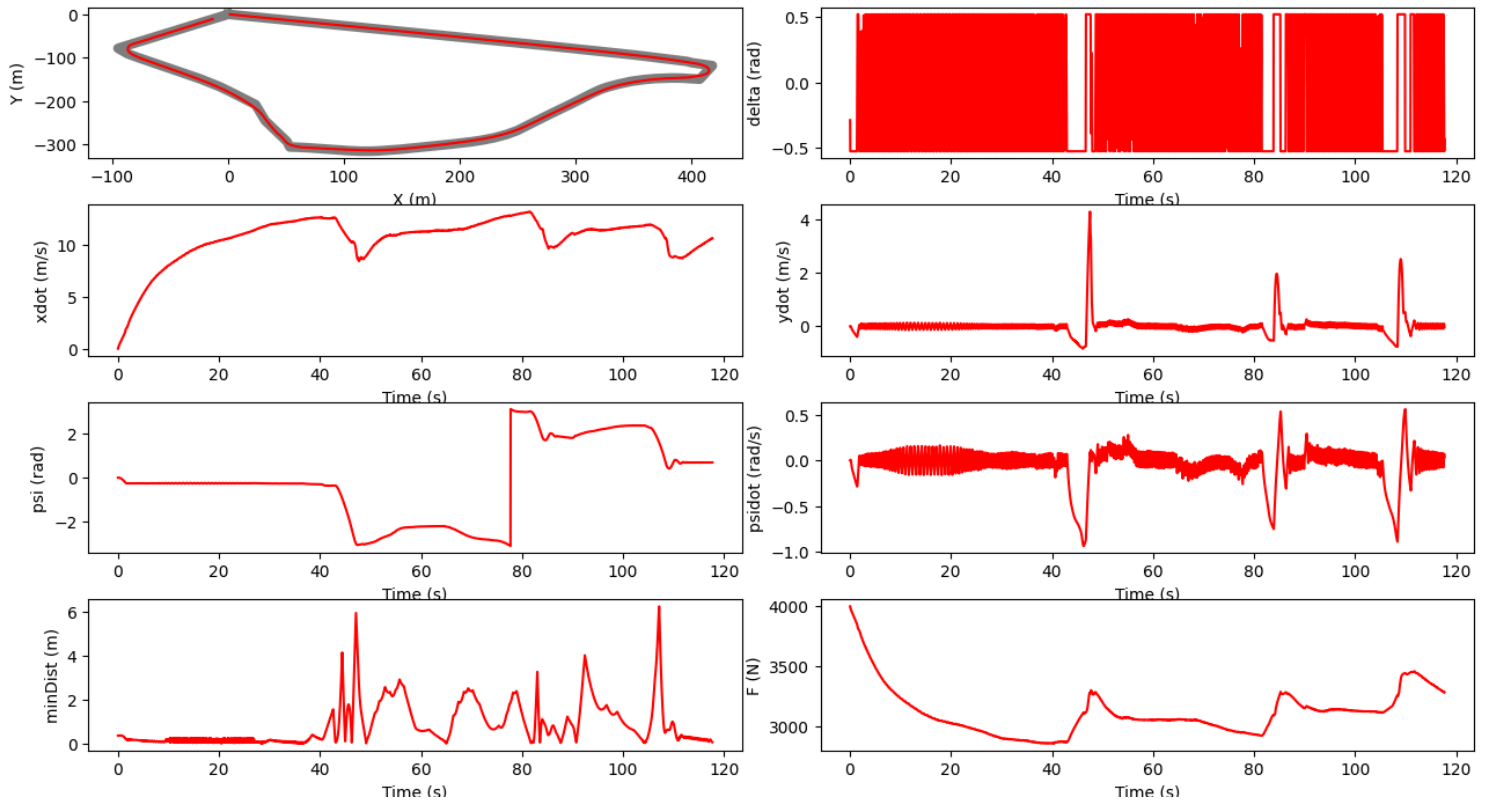Name: Barathkrishna Satheeshkumar

Andrew ID: bsathees

Performance plot for LQR

Time for loop completion: **117.66s**

Evaluation for LQR

```
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   117.664
Your total score is : 100.0/100.0
total steps:   117664
maxMinDist:   6.236326820618837
avgMinDist:   0.844636011638062
```
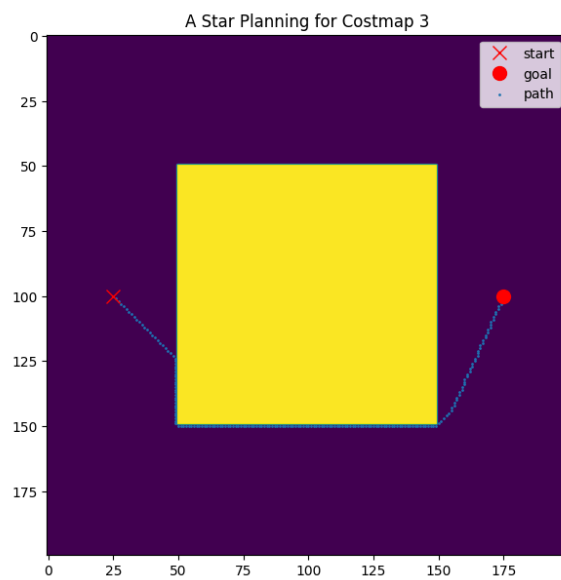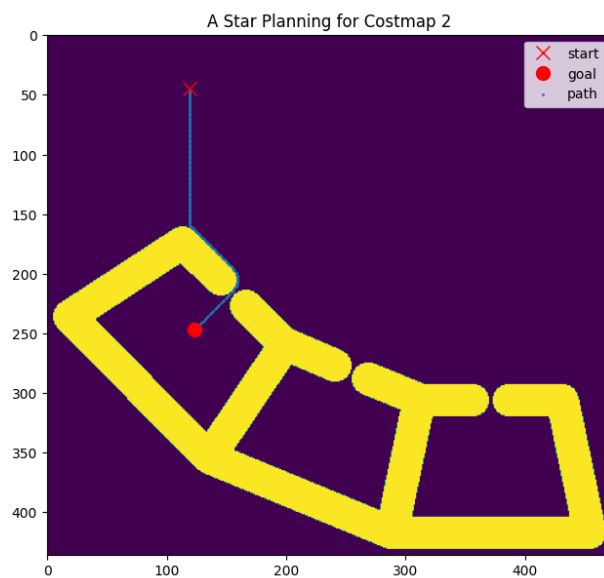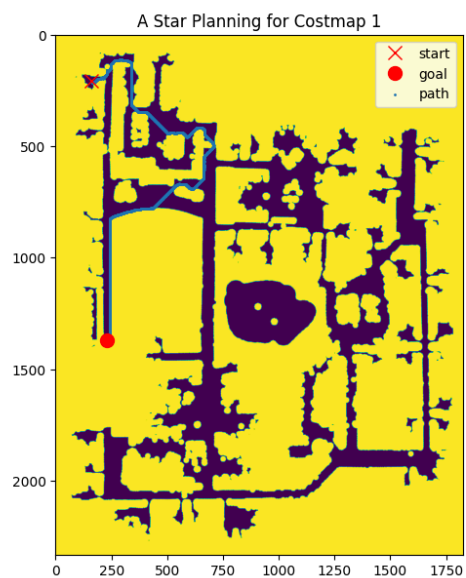
Figures for A* Planning Problems
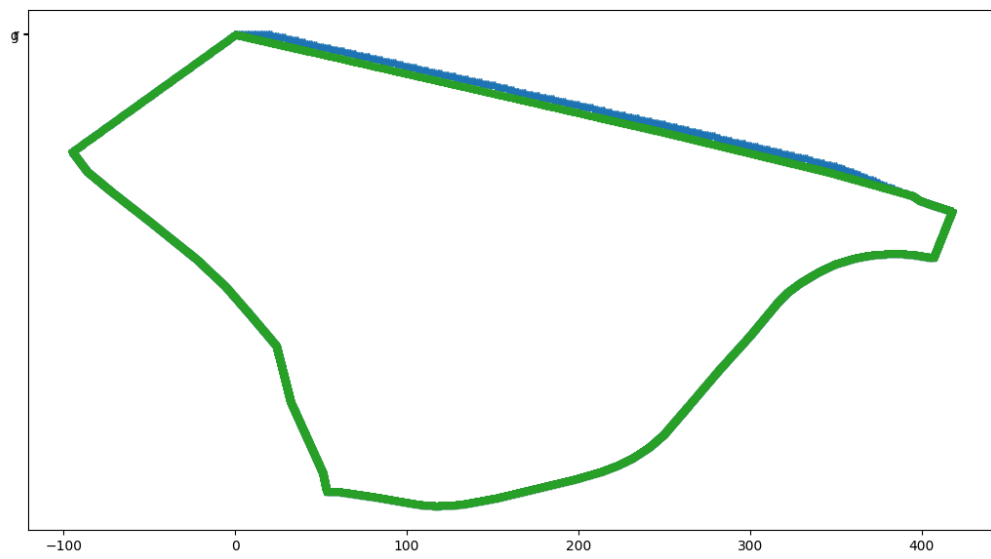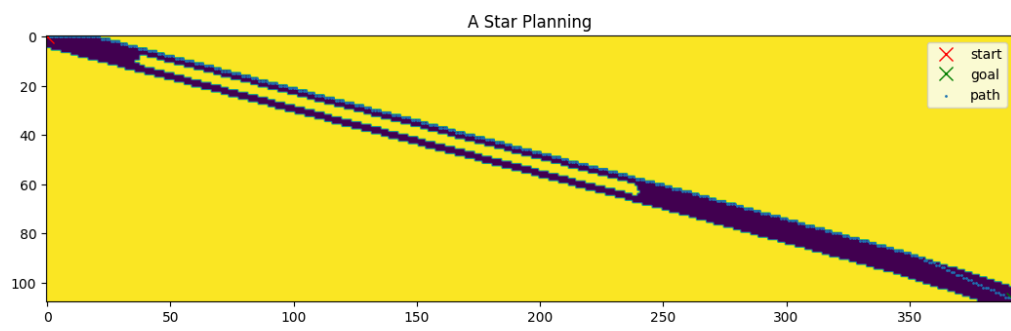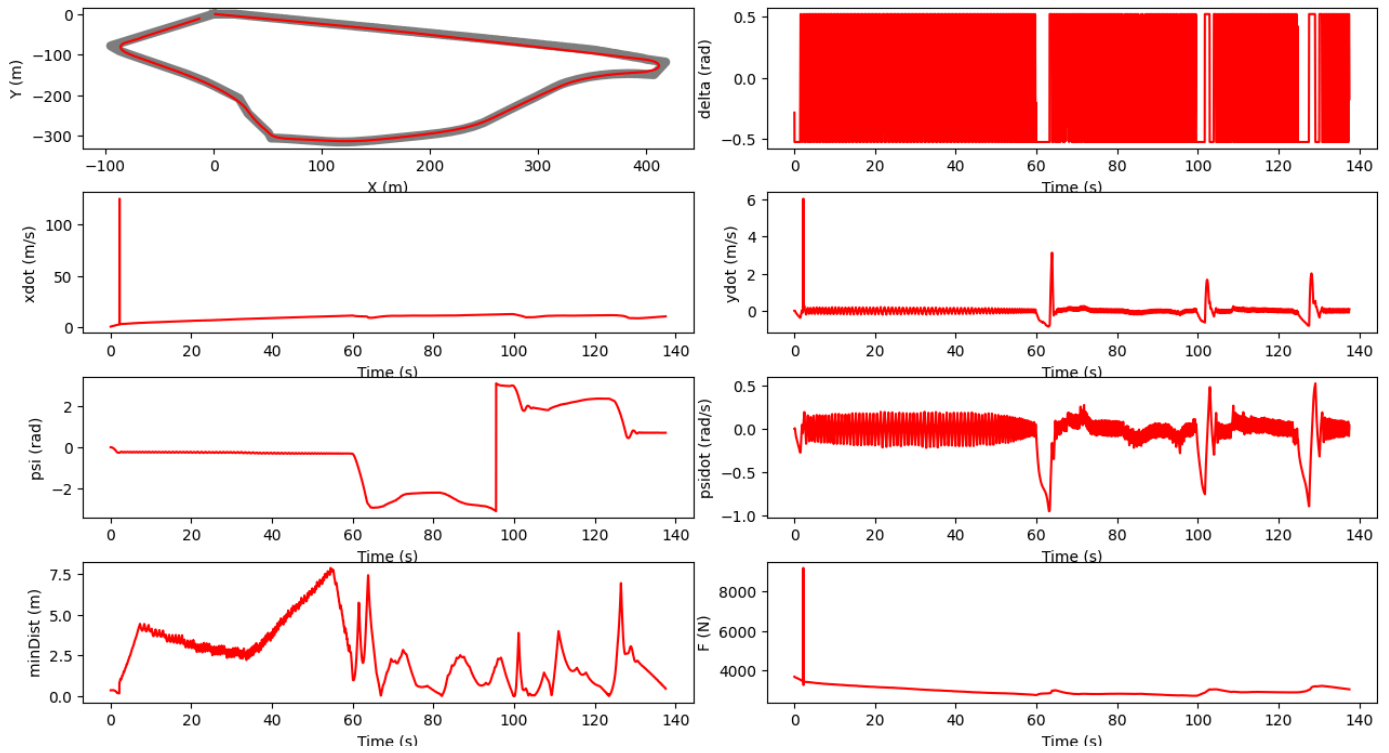

A Star Planning for Costmap 1

A Star Planning for Costmap 2

A Star Planning for Costmap 3

A* Planning for Car

Time of completion of loop: **~140s**

Figures attached on next page

A Star Planning

Figures continued on next page

Performance plot for A*

Evaluation for LQR

```
[[0 0 0 ... 1 1 1]
 [0 0 0 ... 1 1 1]
 [0 0 0 ... 1 1 1]
 ...
 [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:  137568
maxMinDist:  7.873820388249805
avgMinDist:  2.5222781796056633
```