

Assignment 3

1. Taxi V3

Reward vs Episode curve

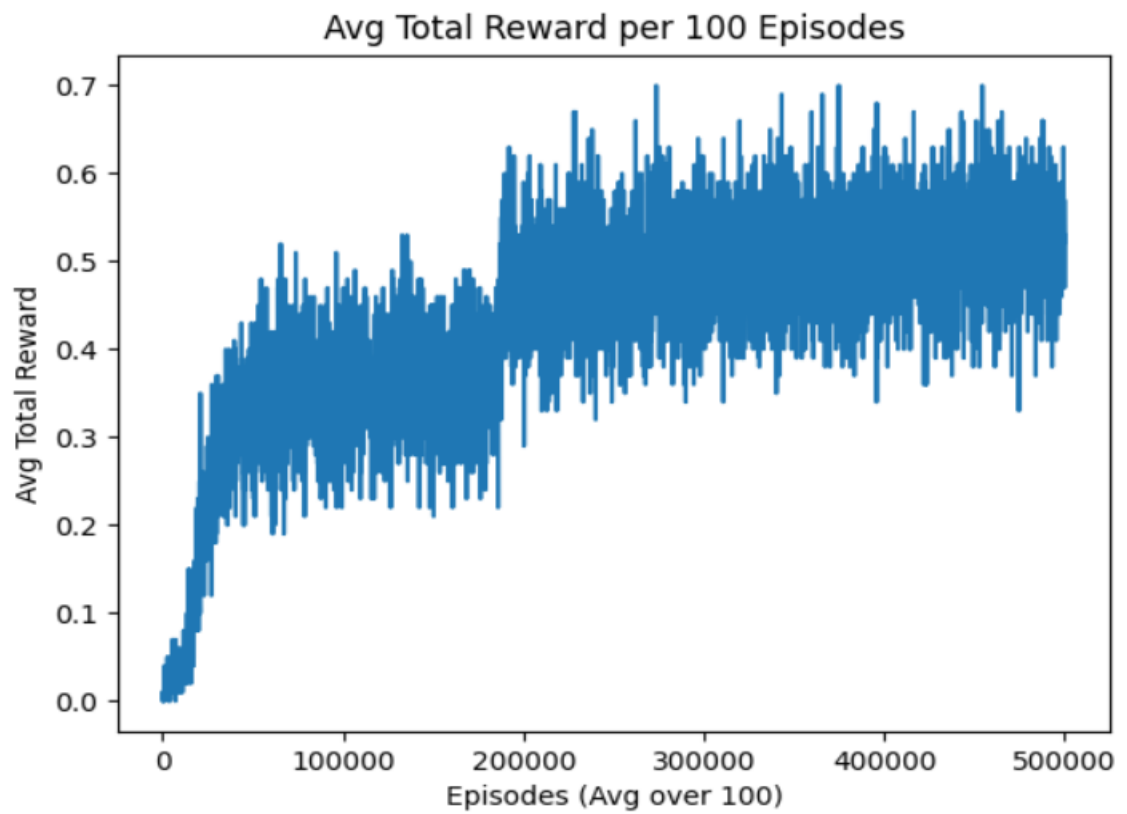


After 5 Lakh episodes, average reward is 8.1

```
Episode 112300 Avg reward 7.5
Episode 112400 Avg reward 7.38
Episode 112500 Avg reward 7.02
Episode 112600 Avg reward 7.49
Episode 112700 Avg reward 7.28
Episode 112800 Avg reward 7.17
Episode 112900 Avg reward 7.27
Episode 113000 Avg reward 7.21
Episode 113100 Avg reward 7.1
Episode 113200 Avg reward 7.47
Episode 113300 Avg reward 7.04
Episode 113400 Avg reward 8.1
Convergence completed in 187.80 seconds
```

GIF is in the plots folder.

2. Frozen Lake (When Slippery)



```
472 Episode 497500 Avg reward 0.57
473 Episode 497600 Avg reward 0.49
474 Episode 497700 Avg reward 0.59
475 Episode 497800 Avg reward 0.51
476 Episode 497900 Avg reward 0.46
477 Episode 498000 Avg reward 0.55
478 Episode 498100 Avg reward 0.46
479 Episode 498200 Avg reward 0.55
480 Episode 498300 Avg reward 0.56
481 Episode 498400 Avg reward 0.53
482 Episode 498500 Avg reward 0.5
483 Episode 498600 Avg reward 0.47
484 Episode 498700 Avg reward 0.51
485 Episode 498800 Avg reward 0.47
486 Episode 498900 Avg reward 0.49
487 Episode 499000 Avg reward 0.49
488 Episode 499100 Avg reward 0.56
489 Episode 499200 Avg reward 0.56
490 Episode 499300 Avg reward 0.63
491 Episode 499400 Avg reward 0.58
492 Episode 499500 Avg reward 0.54
493 Episode 499600 Avg reward 0.54
494 Episode 499700 Avg reward 0.52
495 Episode 499800 Avg reward 0.57
496 Episode 499900 Avg reward 0.47
497 Convergence completed in 407.61 seconds
498 (ail722) (base) root@Abhishek:/home/RL/ass3#
```

Average reward = 0.47

Logs and plots/gif are in the folders -> logs and plots respectively.