

ASSIGNMENT 5

Below is the output for training. As it takes more than one hour to run I am attaching the output

```
Episode: 0, Total Reward: 1.0, Epsilon: 1.0
Episode: 1, Total Reward: 2.0, Epsilon: 0.995
Episode: 2, Total Reward: 0.0, Epsilon: 0.990025
Episode: 3, Total Reward: 1.0, Epsilon: 0.985074875
Episode: 4, Total Reward: 1.0, Epsilon: 0.980149500625
Episode: 5, Total Reward: 2.0, Epsilon: 0.975248753121875
Episode: 6, Total Reward: 3.0, Epsilon: 0.9703725093562656
Episode: 7, Total Reward: 2.0, Epsilon: 0.9655206468094842
Episode: 8, Total Reward: 0.0, Epsilon: 0.9606930435754368
Episode: 9, Total Reward: 0.0, Epsilon: 0.9558895783575596
Episode: 10, Total Reward: 1.0, Epsilon: 0.9511101304657719
Episode: 11, Total Reward: 0.0, Epsilon: 0.946354579813443
Episode: 12, Total Reward: 1.0, Epsilon: 0.9416228069143757
Episode: 13, Total Reward: 0.0, Epsilon: 0.9369146928798039
Episode: 14, Total Reward: 2.0, Epsilon: 0.9322301194154049
Episode: 15, Total Reward: 0.0, Epsilon: 0.9275689688183278
Episode: 16, Total Reward: 2.0, Epsilon: 0.9229311239742362
Episode: 17, Total Reward: 4.0, Epsilon: 0.918316468354365
Episode: 18, Total Reward: 2.0, Epsilon: 0.9137248860125932
Episode: 19, Total Reward: 1.0, Epsilon: 0.9091562615825302
```