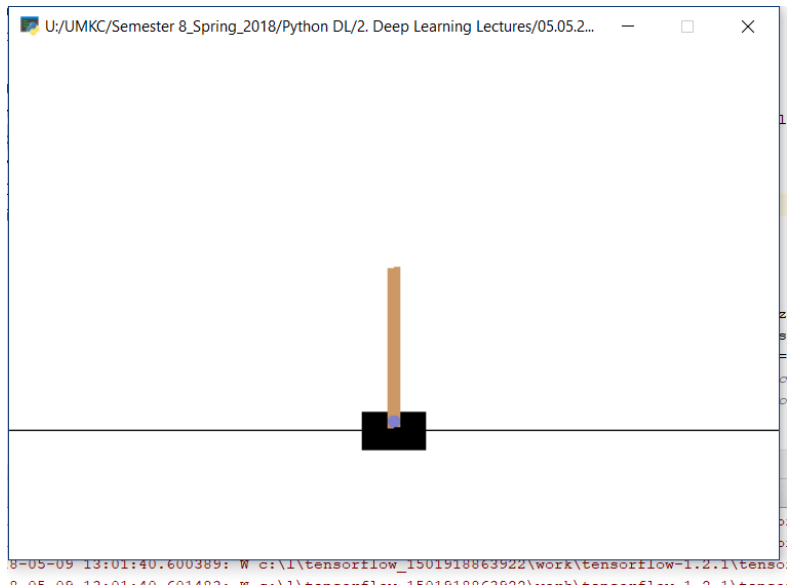


DL Lesson 7

May 9, 2018

1. CartPole-v1



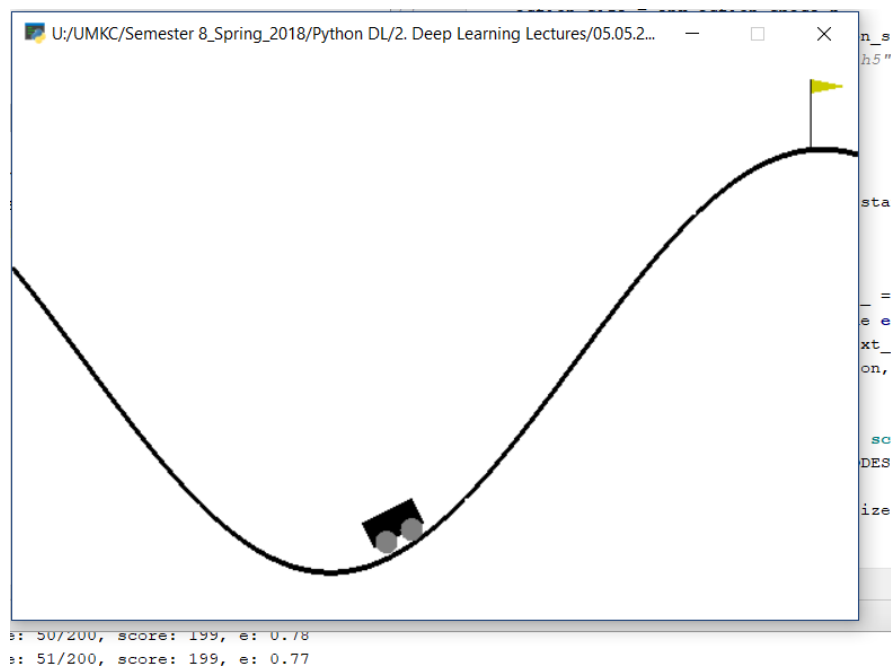
Score:

```
Run dqn
2018-05-09 13:01:40.598119: W c:\l\tensorflow_1501918863922\work\tensorflow-1.2.1\tensorflow\core\platform\cpu_feature_guard.cc:45]
2018-05-09 13:01:40.599278: W c:\l\tensorflow_1501918863922\work\tensorflow-1.2.1\tensorflow\core\platform\cpu_feature_guard.cc:45]
2018-05-09 13:01:40.600389: W c:\l\tensorflow_1501918863922\work\tensorflow-1.2.1\tensorflow\core\platform\cpu_feature_guard.cc:45]
2018-05-09 13:01:40.601483: W c:\l\tensorflow_1501918863922\work\tensorflow-1.2.1\tensorflow\core\platform\cpu_feature_guard.cc:45]
2018-05-09 13:01:40.602598: W c:\l\tensorflow_1501918863922\work\tensorflow-1.2.1\tensorflow\core\platform\cpu_feature_guard.cc:45]
2018-05-09 13:01:40.603714: W c:\l\tensorflow_1501918863922\work\tensorflow-1.2.1\tensorflow\core\platform\cpu_feature_guard.cc:45]
2018-05-09 13:01:40.604660: W c:\l\tensorflow_1501918863922\work\tensorflow-1.2.1\tensorflow\core\platform\cpu_feature_guard.cc:45]
2018-05-09 13:01:40.605406: W c:\l\tensorflow_1501918863922\work\tensorflow-1.2.1\tensorflow\core\platform\cpu_feature_guard.cc:45]
episode: 2/200, score: 11, e: 0.99
episode: 3/200, score: 34, e: 0.99
episode: 4/200, score: 22, e: 0.99
episode: 5/200, score: 22, e: 0.98
episode: 6/200, score: 37, e: 0.98
episode: 7/200, score: 14, e: 0.97
episode: 8/200, score: 22, e: 0.97
episode: 9/200, score: 15, e: 0.96
episode: 10/200, score: 19, e: 0.96
episode: 11/200, score: 11, e: 0.95
episode: 12/200, score: 28, e: 0.95
episode: 13/200, score: 15, e: 0.94
episode: 14/200, score: 10, e: 0.94
episode: 15/200, score: 11, e: 0.93
episode: 16/200, score: 14, e: 0.93
episode: 17/200, score: 14, e: 0.92
episode: 18/200, score: 12, e: 0.92
episode: 19/200, score: 19, e: 0.91
episode: 20/200, score: 30, e: 0.91
episode: 21/200, score: 30, e: 0.9
episode: 22/200, score: 24, e: 0.9
episode: 23/200, score: 15, e: 0.9
episode: 24/200, score: 19, e: 0.89
episode: 25/200, score: 33, e: 0.89
episode: 26/200, score: 18, e: 0.88
```

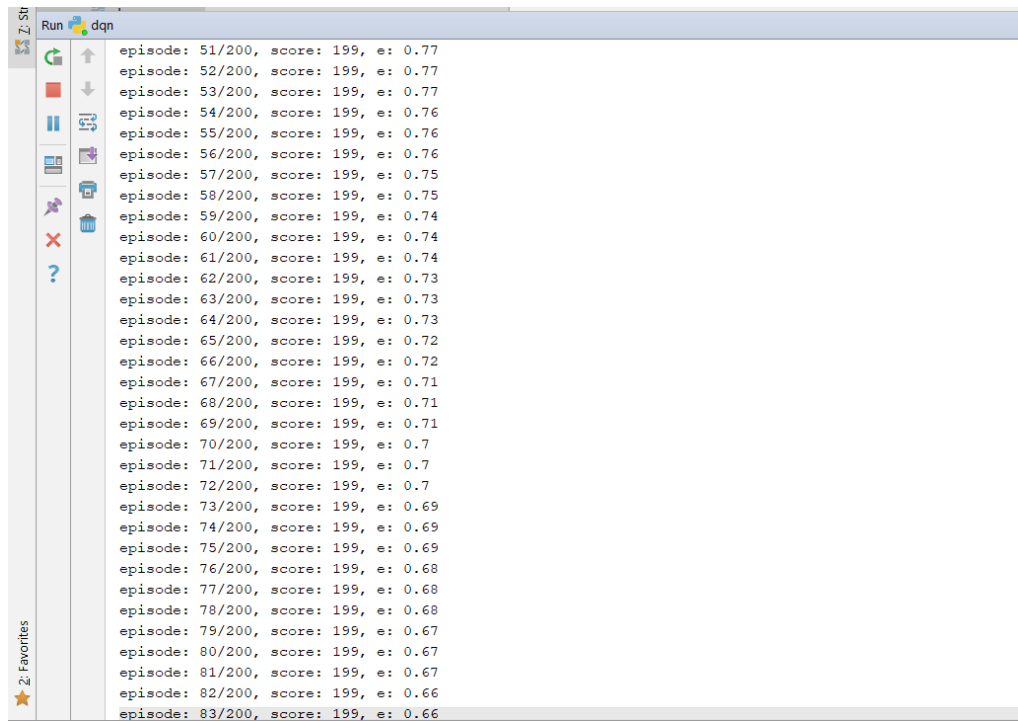
```
Run dqn
episode: 171/200, score: 61, e: 0.43
episode: 172/200, score: 48, e: 0.42
episode: 173/200, score: 43, e: 0.42
episode: 174/200, score: 87, e: 0.42
episode: 175/200, score: 27, e: 0.42
episode: 176/200, score: 40, e: 0.42
episode: 177/200, score: 33, e: 0.41
episode: 178/200, score: 53, e: 0.41
episode: 179/200, score: 42, e: 0.41
episode: 180/200, score: 26, e: 0.41
episode: 181/200, score: 34, e: 0.41
episode: 182/200, score: 96, e: 0.4
episode: 183/200, score: 53, e: 0.4
episode: 184/200, score: 16, e: 0.4
episode: 185/200, score: 55, e: 0.4
episode: 186/200, score: 118, e: 0.4
episode: 187/200, score: 142, e: 0.39
episode: 188/200, score: 82, e: 0.39
episode: 189/200, score: 29, e: 0.39
episode: 190/200, score: 50, e: 0.39
episode: 191/200, score: 45, e: 0.39
episode: 192/200, score: 64, e: 0.38
episode: 193/200, score: 51, e: 0.38
episode: 194/200, score: 65, e: 0.38
episode: 195/200, score: 38, e: 0.38
episode: 196/200, score: 47, e: 0.38
episode: 197/200, score: 63, e: 0.37
episode: 198/200, score: 51, e: 0.37
episode: 199/200, score: 53, e: 0.37

Process finished with exit code 0
```

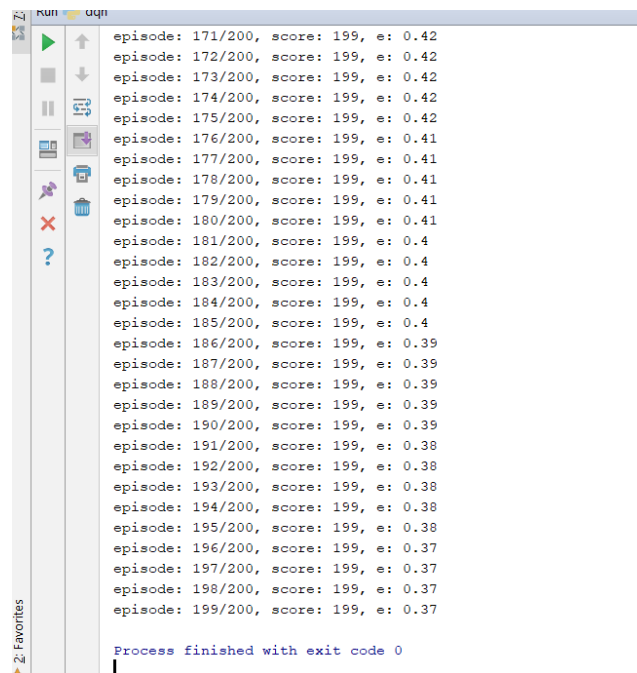
2. MountainCar-v0



Score:



```
Run dqn
episode: 51/200, score: 199, e: 0.77
episode: 52/200, score: 199, e: 0.77
episode: 53/200, score: 199, e: 0.77
episode: 54/200, score: 199, e: 0.76
episode: 55/200, score: 199, e: 0.76
episode: 56/200, score: 199, e: 0.76
episode: 57/200, score: 199, e: 0.75
episode: 58/200, score: 199, e: 0.75
episode: 59/200, score: 199, e: 0.74
episode: 60/200, score: 199, e: 0.74
episode: 61/200, score: 199, e: 0.74
episode: 62/200, score: 199, e: 0.73
episode: 63/200, score: 199, e: 0.73
episode: 64/200, score: 199, e: 0.73
episode: 65/200, score: 199, e: 0.72
episode: 66/200, score: 199, e: 0.72
episode: 67/200, score: 199, e: 0.71
episode: 68/200, score: 199, e: 0.71
episode: 69/200, score: 199, e: 0.71
episode: 70/200, score: 199, e: 0.7
episode: 71/200, score: 199, e: 0.7
episode: 72/200, score: 199, e: 0.7
episode: 73/200, score: 199, e: 0.69
episode: 74/200, score: 199, e: 0.69
episode: 75/200, score: 199, e: 0.69
episode: 76/200, score: 199, e: 0.68
episode: 77/200, score: 199, e: 0.68
episode: 78/200, score: 199, e: 0.68
episode: 79/200, score: 199, e: 0.67
episode: 80/200, score: 199, e: 0.67
episode: 81/200, score: 199, e: 0.67
episode: 82/200, score: 199, e: 0.66
episode: 83/200, score: 199, e: 0.66
```



```
Run dqn
episode: 171/200, score: 199, e: 0.42
episode: 172/200, score: 199, e: 0.42
episode: 173/200, score: 199, e: 0.42
episode: 174/200, score: 199, e: 0.42
episode: 175/200, score: 199, e: 0.42
episode: 176/200, score: 199, e: 0.41
episode: 177/200, score: 199, e: 0.41
episode: 178/200, score: 199, e: 0.41
episode: 179/200, score: 199, e: 0.41
episode: 180/200, score: 199, e: 0.41
episode: 181/200, score: 199, e: 0.4
episode: 182/200, score: 199, e: 0.4
episode: 183/200, score: 199, e: 0.4
episode: 184/200, score: 199, e: 0.4
episode: 185/200, score: 199, e: 0.4
episode: 186/200, score: 199, e: 0.39
episode: 187/200, score: 199, e: 0.39
episode: 188/200, score: 199, e: 0.39
episode: 189/200, score: 199, e: 0.39
episode: 190/200, score: 199, e: 0.39
episode: 191/200, score: 199, e: 0.38
episode: 192/200, score: 199, e: 0.38
episode: 193/200, score: 199, e: 0.38
episode: 194/200, score: 199, e: 0.38
episode: 195/200, score: 199, e: 0.38
episode: 196/200, score: 199, e: 0.37
episode: 197/200, score: 199, e: 0.37
episode: 198/200, score: 199, e: 0.37
episode: 199/200, score: 199, e: 0.37

Process finished with exit code 0
```

For MountainCar-v0 scores are quite consistent (199). But for CartPole-v1 score varied a lot (9 to 149)