Using hyperparameters from data/20Agents/params.json

experiment\_name : 20Agents

model\_type : DDPG

use\_model : False

num\_agents : 20

buffer\_size : 1000000.0

batch\_size : 64

gamma : 0.99

time\_steps : 20

update\_rate : 10

target\_tau : 0.001

lr\_actor : 0.0001

lr\_critic : 0.0003

weight\_decay : 0.0001

dropout : 0.2

mean\_windowsize : 100

t\_max : 500

target\_score : 30.0

train\_episodes : 1000

test\_episodes : 100

Train Mode: Train

Number of agents: 20

load model: False

Episode 1 Average Score: 0.20 Elapse time: 68.63

Episode 2 Average Score: 0.36 Elapse time: 140.24

Episode 3 Average Score: 0.42 Elapse time: 142.98

Episode 4 Average Score: 0.50 Elapse time: 219.27

Episode 5 Average Score: 0.61 Elapse time: 298.68

Episode 6 Average Score: 0.68 Elapse time: 301.38

Episode 7 Average Score: 0.76 Elapse time: 375.35

Episode 8 Average Score: 0.83 Elapse time: 448.32

Episode 9 Average Score: 0.89 Elapse time: 450.86

Episode 10 Average Score: 0.96 Elapse time: 523.49

Episode 11 Average Score: 1.04 Elapse time: 594.50

Episode 12 Average Score: 1.11 Elapse time: 597.03

Episode 13 Average Score: 1.18 Elapse time: 668.27

Episode 14 Average Score: 1.26 Elapse time: 739.06

Episode 15 Average Score: 1.34 Elapse time: 741.58

Episode 16 Average Score: 1.41 Elapse time: 813.29

Episode 17 Average Score: 1.50 Elapse time: 884.62

Episode 18 Average Score: 1.58 Elapse time: 887.21

Episode 19 Average Score: 1.67 Elapse time: 960.16

Episode 20 Average Score: 1.76 Elapse time: 1032.55

Episode 21 Average Score: 1.84 Elapse time: 1035.20

Episode 22 Average Score: 1.93 Elapse time: 1106.22

Episode 23 Average Score: 2.02 Elapse time: 1176.68

Episode 24 Average Score: 2.11 Elapse time: 1179.26

Episode 25 Average Score: 2.19 Elapse time: 1250.05

Episode 26 Average Score: 2.28 Elapse time: 1318.52

Episode 27 Average Score: 2.36 Elapse time: 1321.14

Episode 28 Average Score: 2.45 Elapse time: 1392.39

Episode 29 Average Score: 2.54 Elapse time: 1461.23

Episode 30 Average Score: 2.62 Elapse time: 1463.79

Episode 31 Average Score: 2.70 Elapse time: 1533.94

Episode 32 Average Score: 2.79 Elapse time: 1603.54

Episode 33 Average Score: 2.88 Elapse time: 1606.17

Episode 34 Average Score: 2.97 Elapse time: 1674.85

Episode 35 Average Score: 3.06 Elapse time: 1746.84

Episode 36 Average Score: 3.15 Elapse time: 1749.44

Episode 37 Average Score: 3.24 Elapse time: 1818.23

Episode 38 Average Score: 3.34 Elapse time: 1888.87

Episode 39 Average Score: 3.43 Elapse time: 1891.31

Episode 40 Average Score: 3.52 Elapse time: 1961.16

Episode 41 Average Score: 3.61 Elapse time: 2030.19

Episode 42 Average Score: 3.70 Elapse time: 2032.75

Episode 43 Average Score: 3.79 Elapse time: 2103.80

Episode 44 Average Score: 3.88 Elapse time: 2172.12

Episode 45 Average Score: 3.97 Elapse time: 2174.95

Episode 46 Average Score: 4.07 Elapse time: 2246.40

Episode 47 Average Score: 4.17 Elapse time: 2314.57

Episode 48 Average Score: 4.26 Elapse time: 2317.16

Episode 49 Average Score: 4.36 Elapse time: 2388.50

Episode 50 Average Score: 4.46 Elapse time: 2458.10

Episode 51 Average Score: 4.55 Elapse time: 2460.41

Episode 52 Average Score: 4.65 Elapse time: 2530.78

Episode 53 Average Score: 4.74 Elapse time: 2602.52

Episode 54 Average Score: 4.83 Elapse time: 2605.23

Episode 55 Average Score: 4.93 Elapse time: 2679.05

Episode 56 Average Score: 5.03 Elapse time: 2748.10

Episode 57 Average Score: 5.12 Elapse time: 2750.70

Episode 58 Average Score: 5.22 Elapse time: 2822.25

Episode 59 Average Score: 5.31 Elapse time: 2893.26

Episode 60 Average Score: 5.41 Elapse time: 2896.03

Episode 61 Average Score: 5.50 Elapse time: 2967.01

Episode 62 Average Score: 5.60 Elapse time: 3038.07

Episode 63 Average Score: 5.69 Elapse time: 3040.71

Episode 64 Average Score: 5.79 Elapse time: 3112.11

Episode 65 Average Score: 5.89 Elapse time: 3183.38

Episode 66 Average Score: 5.98 Elapse time: 3185.96

Episode 67 Average Score: 6.08 Elapse time: 3255.16

Episode 68 Average Score: 6.18 Elapse time: 3327.20

Episode 69 Average Score: 6.27 Elapse time: 3329.75

Episode 70 Average Score: 6.37 Elapse time: 3401.09

Episode 71 Average Score: 6.47 Elapse time: 3472.30

Episode 72 Average Score: 6.56 Elapse time: 3474.84

Episode 73 Average Score: 6.66 Elapse time: 3546.81

Episode 74 Average Score: 6.76 Elapse time: 3617.18

Episode 75 Average Score: 6.86 Elapse time: 3619.94

Episode 76 Average Score: 6.96 Elapse time: 3692.02

Episode 77 Average Score: 7.05 Elapse time: 3763.53

Episode 78 Average Score: 7.15 Elapse time: 3766.21

Episode 79 Average Score: 7.25 Elapse time: 3837.79

Episode 80 Average Score: 7.35 Elapse time: 3909.23

Episode 81 Average Score: 7.44 Elapse time: 3911.83

Episode 82 Average Score: 7.54 Elapse time: 3983.70

Episode 83 Average Score: 7.64 Elapse time: 4055.20

Episode 84 Average Score: 7.74 Elapse time: 4057.76

Episode 85 Average Score: 7.83 Elapse time: 4129.29

Episode 86 Average Score: 7.93 Elapse time: 4201.96

Episode 87 Average Score: 8.03 Elapse time: 4204.54

Episode 88 Average Score: 8.12 Elapse time: 4276.36

Episode 89 Average Score: 8.22 Elapse time: 4348.02

Episode 90 Average Score: 8.32 Elapse time: 4350.60

Episode 91 Average Score: 8.42 Elapse time: 4422.04

Episode 92 Average Score: 8.52 Elapse time: 4493.35

Episode 93 Average Score: 8.62 Elapse time: 4495.89

Episode 94 Average Score: 8.72 Elapse time: 4566.85

Episode 95 Average Score: 8.82 Elapse time: 4637.94

Episode 96 Average Score: 8.92 Elapse time: 4640.49

Episode 97 Average Score: 9.01 Elapse time: 4711.85

Episode 98 Average Score: 9.11 Elapse time: 4783.29

Episode 99 Average Score: 9.21 Elapse time: 4785.82

Episode 100 Average Score: 9.31 Elapse time: 4856.80

Episode 101 Average Score: 9.50 Elapse time: 4927.95

Episode 102 Average Score: 9.69 Elapse time: 4930.50

Episode 103 Average Score: 9.89 Elapse time: 5002.34

Episode 104 Average Score: 10.08 Elapse time: 5074.45

Episode 105 Average Score: 10.27 Elapse time: 5077.04

Episode 106 Average Score: 10.46 Elapse time: 5149.44

Episode 107 Average Score: 10.66 Elapse time: 5221.43

Episode 108 Average Score: 10.85 Elapse time: 5224.01

Episode 109 Average Score: 11.05 Elapse time: 5295.52

Episode 110 Average Score: 11.25 Elapse time: 5368.19

Episode 111 Average Score: 11.44 Elapse time: 5370.76

Episode 112 Average Score: 11.64 Elapse time: 5442.67

Episode 113 Average Score: 11.84 Elapse time: 5514.59

Episode 114 Average Score: 12.03 Elapse time: 5517.16

Episode 115 Average Score: 12.23 Elapse time: 5589.41

Episode 116 Average Score: 12.43 Elapse time: 5661.77

Episode 117 Average Score: 12.63 Elapse time: 5664.35

Episode 118 Average Score: 12.83 Elapse time: 5736.41

Episode 119 Average Score: 13.02 Elapse time: 5808.52

Episode 120 Average Score: 13.22 Elapse time: 5811.12

Episode 121 Average Score: 13.42 Elapse time: 5883.25

Episode 122 Average Score: 13.61 Elapse time: 5955.55

Episode 123 Average Score: 13.81 Elapse time: 5958.19

Episode 124 Average Score: 14.01 Elapse time: 6030.16

Episode 125 Average Score: 14.21 Elapse time: 6102.26

Episode 126 Average Score: 14.41 Elapse time: 6104.86

Episode 127 Average Score: 14.61 Elapse time: 6177.03

Episode 128 Average Score: 14.81 Elapse time: 6249.95

Episode 129 Average Score: 15.01 Elapse time: 6252.58

Episode 130 Average Score: 15.21 Elapse time: 6325.10

Episode 131 Average Score: 15.41 Elapse time: 6397.37

Episode 132 Average Score: 15.61 Elapse time: 6399.98

Episode 133 Average Score: 15.81 Elapse time: 6472.14

Episode 134 Average Score: 16.01 Elapse time: 6544.18

Episode 135 Average Score: 16.21 Elapse time: 6546.74

Episode 136 Average Score: 16.41 Elapse time: 6618.67

Episode 137 Average Score: 16.61 Elapse time: 6690.62

Episode 138 Average Score: 16.81 Elapse time: 6693.21

Episode 139 Average Score: 17.01 Elapse time: 6765.01

Episode 140 Average Score: 17.21 Elapse time: 6837.66

Episode 141 Average Score: 17.40 Elapse time: 6840.67

Episode 142 Average Score: 17.60 Elapse time: 6913.28

Episode 143 Average Score: 17.80 Elapse time: 6985.16

Episode 144 Average Score: 18.00 Elapse time: 6987.75

Episode 145 Average Score: 18.20 Elapse time: 7059.94

Episode 146 Average Score: 18.40 Elapse time: 7132.08

Episode 147 Average Score: 18.59 Elapse time: 7134.69

Episode 148 Average Score: 18.79 Elapse time: 7207.52

Episode 149 Average Score: 18.99 Elapse time: 7279.95

Episode 150 Average Score: 19.19 Elapse time: 7282.54

Episode 151 Average Score: 19.39 Elapse time: 7354.45

Episode 152 Average Score: 19.59 Elapse time: 7426.59

Episode 153 Average Score: 19.80 Elapse time: 7429.51

Episode 154 Average Score: 20.00 Elapse time: 7502.18

Episode 155 Average Score: 20.20 Elapse time: 7574.07

Episode 156 Average Score: 20.40 Elapse time: 7576.68

Episode 157 Average Score: 20.60 Elapse time: 7648.87

Episode 158 Average Score: 20.80 Elapse time: 7720.75

Episode 159 Average Score: 21.00 Elapse time: 7723.34

Episode 160 Average Score: 21.20 Elapse time: 7795.55

Episode 161 Average Score: 21.40 Elapse time: 7870.84

Episode 162 Average Score: 21.60 Elapse time: 23384.90

Episode 163 Average Score: 21.81 Elapse time: 23453.03

Episode 164 Average Score: 22.01 Elapse time: 23517.75

Episode 165 Average Score: 22.21 Elapse time: 23520.11

Episode 166 Average Score: 22.41 Elapse time: 23581.98

Episode 167 Average Score: 22.61 Elapse time: 23646.69

Episode 168 Average Score: 22.81 Elapse time: 23649.50

Episode 169 Average Score: 23.01 Elapse time: 23718.83

Episode 170 Average Score: 23.21 Elapse time: 23785.05

Episode 171 Average Score: 23.41 Elapse time: 23787.62

Episode 172 Average Score: 23.61 Elapse time: 23857.61

Episode 173 Average Score: 23.82 Elapse time: 23926.85

Episode 174 Average Score: 24.02 Elapse time: 23929.45

Episode 175 Average Score: 24.22 Elapse time: 23999.04

Episode 176 Average Score: 24.42 Elapse time: 24070.25

Episode 177 Average Score: 24.62 Elapse time: 24072.83

Episode 178 Average Score: 24.83 Elapse time: 24144.36

Episode 179 Average Score: 25.04 Elapse time: 24215.84

Episode 180 Average Score: 25.24 Elapse time: 24218.54

Episode 181 Average Score: 25.44 Elapse time: 24290.69

Episode 182 Average Score: 25.65 Elapse time: 24363.25

Episode 183 Average Score: 25.85 Elapse time: 24366.10

Episode 184 Average Score: 26.06 Elapse time: 24438.65

Episode 185 Average Score: 26.26 Elapse time: 24510.23

Episode 186 Average Score: 26.46 Elapse time: 24512.80

Episode 187 Average Score: 26.67 Elapse time: 24584.99

Episode 188 Average Score: 26.87 Elapse time: 24656.66

Episode 189 Average Score: 27.07 Elapse time: 24659.28

Episode 190 Average Score: 27.28 Elapse time: 24730.98

Episode 191 Average Score: 27.48 Elapse time: 24802.72

Episode 192 Average Score: 27.68 Elapse time: 24805.30

Episode 193 Average Score: 27.88 Elapse time: 24877.95

Episode 194 Average Score: 28.09 Elapse time: 24950.05

Episode 195 Average Score: 28.29 Elapse time: 24952.64

Episode 196 Average Score: 28.49 Elapse time: 25024.59

Episode 197 Average Score: 28.69 Elapse time: 25096.86

Episode 198 Average Score: 28.89 Elapse time: 25099.52

Episode 199 Average Score: 29.09 Elapse time: 25172.43

Episode 200 Average Score: 29.30 Elapse time: 25244.83

Episode 201 Average Score: 29.50 Elapse time: 25247.49

Episode 202 Average Score: 29.70 Elapse time: 25319.80

Episode 203 Average Score: 29.90 Elapse time: 25391.68

Episode 204 Average Score: 30.10 Elapse time: 25394.26

INFO:root:

Environment solved in 204 episodes! Average Score: 30.10 Elapse time: 25394.26