```
 1 /Library/Frameworks/Python.framework/Versions/3.5/bin/
   python3.5 "/Users/sigveskaugvoll/Documents/Skole/2017H/
   TDT4217 — KOGARK/øvinger/øving4/main.py"
 2 I'm Perceptron
 3                 MIN weight are -0.5
 4                 MAX weight are 0.5
 5                 Theta are 0.3737228107137689
 6                 # of weights 2
 7                 Y is 0
 8                 Weights are [-0.09185459250548134, 0.
   33292114726442956]
 9
10 Training.W0 Before : -0.09185459250548134
11 W0 After : -0.09185459250548134
12
13 W1 Before : 0.33292114726442956
14 W1 After : 0.33292114726442956
15
16 .W0 Before : -0.09185459250548134
17 W0 After : -0.09185459250548134
18
19 W1 Before : 0.33292114726442956
20 W1 After : 0.33292114726442956
21
22 .W0 Before : -0.09185459250548134
23 W0 After : -0.09185459250548134
24
25 W1 Before : 0.33292114726442956
26 W1 After : 0.33292114726442956
27
28 .W0 Before : -0.09185459250548134
29 W0 After : 0.00814540749451867
30
31 W1 Before : 0.33292114726442956
32 W1 After : 0.43292114726442954
33
34 .W0 Before : 0.00814540749451867
35 W0 After : 0.00814540749451867
36
37 W1 Before : 0.43292114726442954
38 W1 After : 0.43292114726442954
39
40 .W0 Before : 0.00814540749451867
41 W0 After : 0.00814540749451867
42
43 W1 Before : 0.43292114726442954
44 W1 After : 0.33292114726442956
45
46 .W0 Before : 0.00814540749451867
47 W0 After : 0.00814540749451867
```

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48
49 W1 Before : 0.33292114726442956
50 W1 After : 0.33292114726442956
51
52 .W0 Before : 0.00814540749451867
53 W0 After : 0.10814540749451867
54
55 W1 Before : 0.33292114726442956
56 W1 After : 0.43292114726442954
57
58 .W0 Before : 0.10814540749451867
59 W0 After : 0.10814540749451867
60
61 W1 Before : 0.43292114726442954
62 W1 After : 0.43292114726442954
63
64 .W0 Before : 0.10814540749451867
65 W0 After : 0.10814540749451867
66
67 W1 Before : 0.43292114726442954
68 W1 After : 0.33292114726442956
69
70 .W0 Before : 0.10814540749451867
71 W0 After : 0.10814540749451867
72
73 W1 Before : 0.33292114726442956
74 W1 After : 0.33292114726442956
75
76 .W0 Before : 0.10814540749451867
77 W0 After : 0.10814540749451867
78
79 W1 Before : 0.33292114726442956
80 W1 After : 0.33292114726442956
81
82 .W0 Before : 0.10814540749451867
83 W0 After : 0.10814540749451867
84
85 W1 Before : 0.33292114726442956
86 W1 After : 0.33292114726442956
87
88 .W0 Before : 0.10814540749451867
89 W0 After : 0.10814540749451867
90
91 W1 Before : 0.33292114726442956
92 W1 After : 0.33292114726442956
93
94 .W0 Before : 0.10814540749451867
95 W0 After : 0.10814540749451867
96
97 W1 Before : 0.33292114726442956
```

```
 98 W1 After : 0.33292114726442956
 99
100 .W0 Before : 0.10814540749451867
101 W0 After : 0.10814540749451867
102
103 W1 Before : 0.33292114726442956
104 W1 After : 0.33292114726442956
105
106 Training complete in 1.64seconds and 3 epochs!
107 Now testing
108 [0, 0] should be 0, and are : 0
109 [0, 1] should be 0, and are : 0
110 [1, 0] should be 0, and are : 0
111 [1, 1] should be 1, and are : 1
112 Success rate: 1.0%
113 I'm Perceptron
114                 MIN weight are −0.5
115                 MAX weight are 0.5
116                 Theta are 0.3737228107137689
117                 # of weights 2
118                 Y is 1
119                 Weights are [0.10814540749451867, 0.
    33292114726442956]
120
121
122 Process finished with exit code 0
123
```