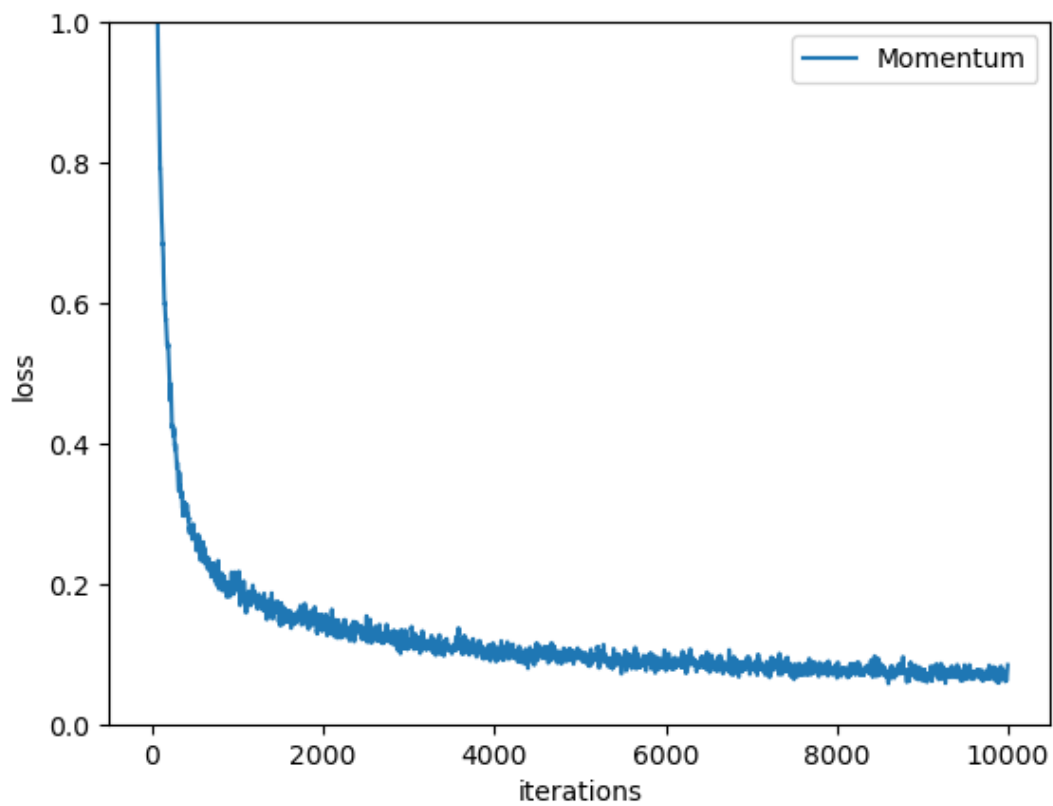
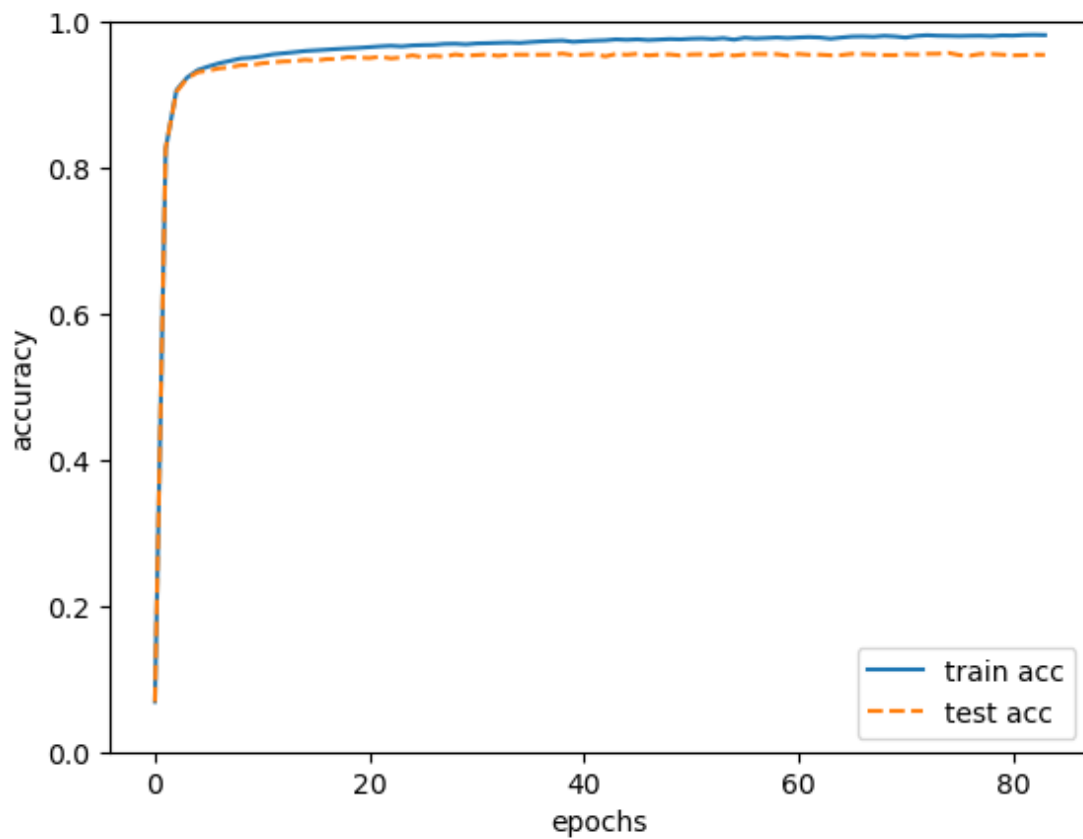


반복횟수와 손실함수값 추이 (Momentum)



에폭 당 정확도 변화



신경망 학습 시작 - 신경망: 6층

1 번째 학습(에폭) -->	train_acc : 6.88%, test_acc : 6.83%		
2 번째 학습(에폭) -->	train_acc : 82.59%, test_acc : 82.69%		
3 번째 학습(에폭) -->	train_acc : 90.62%, test_acc : 90.41%		
4 번째 학습(에폭) -->	train_acc : 92.36%, test_acc : 92.26%		
5 번째 학습(에폭) -->	train_acc : 93.39%, test_acc : 93.09%		
6 번째 학습(에폭) -->	train_acc : 93.88%, test_acc : 93.32%		
7 번째 학습(에폭) -->	train_acc : 94.32%, test_acc : 93.62%		
8 번째 학습(에폭) -->	train_acc : 94.64%, test_acc : 93.76%		
9 번째 학습(에폭) -->	train_acc : 94.98%, test_acc : 94.06%		
10 번째 학습(에폭) -->	train_acc : 95.08%, test_acc : 94.07%		
11 번째 학습(에폭) -->	train_acc : 95.30%, test_acc : 94.32%		
12 번째 학습(에폭) -->	train_acc : 95.55%, test_acc : 94.45%		
13 번째 학습(에폭) -->	train_acc : 95.69%, test_acc : 94.57%		
14 번째 학습(에폭) -->	train_acc : 95.84%, test_acc : 94.61%		
15 번째 학습(에폭) -->	train_acc : 96.00%, test_acc : 94.79%		
16 번째 학습(에폭) -->	train_acc : 96.09%, test_acc : 94.67%		
17 번째 학습(에폭) -->	train_acc : 96.18%, test_acc : 94.89%		
18 번째 학습(에폭) -->	train_acc : 96.28%, test_acc : 94.90%		
19 번째 학습(에폭) -->	train_acc : 96.36%, test_acc : 95.17%		
20 번째 학습(에폭) -->	train_acc : 96.43%, test_acc : 95.10%		
21 번째 학습(에폭) -->	train_acc : 96.53%, test_acc : 95.03%		
22 번째 학습(에폭) -->	train_acc : 96.64%, test_acc : 95.22%		
23 번째 학습(에폭) -->	train_acc : 96.71%, test_acc : 94.98%		
24 번째 학습(에폭) -->	train_acc : 96.63%, test_acc : 95.12%		
25 번째 학습(에폭) -->	train_acc : 96.76%, test_acc : 95.41%		
26 번째 학습(에폭) -->	train_acc : 96.81%, test_acc : 95.14%		
27 번째 학습(에폭) -->	train_acc : 96.84%, test_acc : 95.34%		
28 번째 학습(에폭) -->	train_acc : 96.97%, test_acc : 95.23%		
29 번째 학습(에폭) -->	train_acc : 96.99%, test_acc : 95.53%		
30 번째 학습(에폭) -->	train_acc : 96.91%, test_acc : 95.35%		
31 번째 학습(에폭) -->	train_acc : 97.04%, test_acc : 95.44%		
32 번째 학습(에폭) -->	train_acc : 97.07%, test_acc : 95.53%		
33 번째 학습(에폭) -->	train_acc : 97.11%, test_acc : 95.34%		
34 번째 학습(에폭) -->	train_acc : 97.15%, test_acc : 95.48%		
35 번째 학습(에폭) -->	train_acc : 97.10%, test_acc : 95.50%		
36 번째 학습(에폭) -->	train_acc : 97.22%, test_acc : 95.49%		
37 번째 학습(에폭) -->	train_acc : 97.31%, test_acc : 95.49%		
38 번째 학습(에폭) -->	train_acc : 97.38%, test_acc : 95.50%		
39 번째 학습(에폭) -->	train_acc : 97.43%, test_acc : 95.65%		
40 번째 학습(에폭) -->	train_acc : 97.25%, test_acc : 95.42%		
41 번째 학습(에폭) -->	train_acc : 97.35%, test_acc : 95.48%		
42 번째 학습(에폭) -->	train_acc : 97.41%, test_acc : 95.57%		
43 번째 학습(에폭) -->	train_acc : 97.47%, test_acc : 95.26%		
44 번째 학습(에폭) -->	train_acc : 97.59%, test_acc : 95.60%		
45 번째 학습(에폭) -->	train_acc : 97.53%, test_acc : 95.48%		
46 번째 학습(에폭) -->	train_acc : 97.60%, test_acc : 95.62%		
47 번째 학습(에폭) -->	train_acc : 97.50%, test_acc : 95.39%		
48 번째 학습(에폭) -->	train_acc : 97.56%, test_acc : 95.50%		
49 번째 학습(에폭) -->	train_acc : 97.64%, test_acc : 95.53%		
50 번째 학습(에폭) -->	train_acc : 97.60%, test_acc : 95.38%		
51 번째 학습(에폭) -->	train_acc : 97.68%, test_acc : 95.52%		
52 번째 학습(에폭) -->	train_acc : 97.72%, test_acc : 95.55%		
53 번째 학습(에폭) -->	train_acc : 97.64%, test_acc : 95.40%		
54 번째 학습(에폭) -->	train_acc : 97.76%, test_acc : 95.56%		
55 번째 학습(에폭) -->	train_acc : 97.55%, test_acc : 95.37%		
56 번째 학습(에폭) -->	train_acc : 97.82%, test_acc : 95.52%		
57 번째 학습(에폭) -->	train_acc : 97.71%, test_acc : 95.58%		
58 번째 학습(에폭) -->	train_acc : 97.77%, test_acc : 95.57%		
59 번째 학습(에폭) -->	train_acc : 97.85%, test_acc : 95.57%		
60 번째 학습(에폭) -->	train_acc : 97.76%, test_acc : 95.37%		
61 번째 학습(에폭) -->	train_acc : 97.85%, test_acc : 95.60%		
62 번째 학습(에폭) -->	train_acc : 97.91%, test_acc : 95.48%		
63 번째 학습(에폭) -->	train_acc : 97.85%, test_acc : 95.50%		
64 번째 학습(에폭) -->	train_acc : 97.68%, test_acc : 95.41%		
65 번째 학습(에폭) -->	train_acc : 97.84%, test_acc : 95.44%		
66 번째 학습(에폭) -->	train_acc : 97.98%, test_acc : 95.61%		
67 번째 학습(에폭) -->	train_acc : 98.00%, test_acc : 95.56%		
68 번째 학습(에폭) -->	train_acc : 97.95%, test_acc : 95.51%		
69 번째 학습(에폭) -->	train_acc : 98.07%, test_acc : 95.44%		
70 번째 학습(에폭) -->	train_acc : 97.99%, test_acc : 95.43%		
71 번째 학습(에폭) -->	train_acc : 97.84%, test_acc : 95.56%		
72 번째 학습(에폭) -->	train_acc : 98.06%, test_acc : 95.51%		
73 번째 학습(에폭) -->	train_acc : 98.16%, test_acc : 95.61%		
74 번째 학습(에폭) -->	train_acc : 98.09%, test_acc : 95.62%		
75 번째 학습(에폭) -->	train_acc : 98.07%, test_acc : 95.74%		
76 번째 학습(에폭) -->	train_acc : 98.04%, test_acc : 95.44%		
77 번째 학습(에폭) -->	train_acc : 98.07%, test_acc : 95.36%		
78 번째 학습(에폭) -->	train_acc : 98.08%, test_acc : 95.60%		
79 번째 학습(에폭) -->	train_acc : 98.03%, test_acc : 95.58%		
80 번째 학습(에폭) -->	train_acc : 98.13%, test_acc : 95.50%		
81 번째 학습(에폭) -->	train_acc : 98.11%, test_acc : 95.40%		
82 번째 학습(에폭) -->	train_acc : 98.19%, test_acc : 95.43%		
83 번째 학습(에폭) -->	train_acc : 98.21%, test_acc : 95.49%		
84 번째 학습(에폭) -->	train_acc : 98.18%, test_acc : 95.47%		
최종 학습률 -->	train_acc : 98.18%, test_acc : 95.47%		

최종 학습률 : train_acc : 98.18%, test_acc : 95.47