

```
1 C:\Users\user\Anaconda3\envs\venv\python.exe C:/Users/user/
  Documents/2019/LAB/MNIST/hiddenLayer2_sigmoid_MSE.py
2 ? ?? Hidden Layer Node ??? ?????:10
3 ? ?? Hidden Layer Node ??? ?????:10
4 100%|██████████| 60000/60000 [11:30<00:00, 86.88it/s]
5 100%|██████████| 10000/10000 [00:56<00:00, 175.74it/s]
6 %%%%%%%%%%
7
8 Error Count: 1412
9
10 Correct Rate: 85.88
11
12 100%|██████████| 60000/60000 [11:45<00:00, 84.99it/s]
13 100%|██████████| 10000/10000 [00:58<00:00, 172.28it/s]
14 0%|██████████| 0/60000 [00:00<?, ?it/s
   ]%%%%%%%%%
15
16 Error Count: 1187
17
18 Correct Rate: 88.13
19
20 100%|██████████| 60000/60000 [11:29<00:00, 87.04it/s]
21 100%|██████████| 10000/10000 [00:56<00:00, 176.12it/s]
22 %%%%%%%%%%
23
24 Error Count: 1081
25
26 Correct Rate: 89.19
27
28 100%|██████████| 60000/60000 [11:36<00:00, 86.16it/s]
29 100%|██████████| 10000/10000 [00:58<00:00, 169.99it/s]
30 0%|██████████| 0/60000 [00:00<?, ?it/s
   ]%%%%%%%%%
31
32 Error Count: 1025
33
34 Correct Rate: 89.75
35
36 100%|██████████| 60000/60000 [11:46<00:00, 84.97it/s]
37 100%|██████████| 10000/10000 [00:57<00:00, 174.25it/s]
38 %%%%%%%%%%
39
40 Error Count: 987
41
42 Correct Rate: 90.13
43
```

```
44 100%|██████████| 60000/60000 [11:48<00:00, 84.73it/s]
45 100%|██████████| 10000/10000 [00:55<00:00, 181.09it/s]
46 %%%%%%%%%%
47
48 Error Count: 945
49
50 Correct Rate: 90.55
51
52 100%|██████████| 60000/60000 [11:09<00:00, 89.67it/s]
53 100%|██████████| 10000/10000 [00:54<00:00, 185.01it/s]
54 0%|██████████| 0/60000 [00:00<?, ?it/s]
   ]%%%%%%%%%
55
56 Error Count: 914
57
58 Correct Rate: 90.86
59
60 100%|██████████| 60000/60000 [11:02<00:00, 90.60it/s]
61 100%|██████████| 10000/10000 [00:54<00:00, 183.91it/s]
62 %%%%%%%%%%
63
64 Error Count: 901
65
66 Correct Rate: 90.99000000000001
67
68 100%|██████████| 60000/60000 [10:58<00:00, 91.05it/s]
69 100%|██████████| 10000/10000 [00:57<00:00, 173.49it/s]
70 0%|██████████| 0/60000 [00:00<?, ?it/s]
   ]%%%%%%%%%
71
72 Error Count: 881
73
74 Correct Rate: 91.19
75
76 100%|██████████| 60000/60000 [11:36<00:00, 86.13it/s]
77 100%|██████████| 10000/10000 [00:56<00:00, 175.49it/s]
78 %%%%%%%%%%
79
80 Error Count: 870
81
82 Correct Rate: 91.3
83
84 100%|██████████| 60000/60000 [11:09<00:00, 89.67it/s]
85 100%|██████████| 10000/10000 [00:54<00:00, 183.79it/s]
86 0%|██████████| 0/60000 [00:00<?, ?it/s]
   ]%%%%%%%%%
```

```
87
88 Error Count: 855
89
90 Correct Rate: 91.45
91
92 100%|██████████| 60000/60000 [11:12<00:00, 89.23it/s]
93 100%|██████████| 10000/10000 [00:54<00:00, 183.79it/s]
94 0%|██████████| 0/60000 [00:00<?, ?it/s]
   ]%%%%%%%%%
95
96 Error Count: 836
97
98 Correct Rate: 91.64
99
100 100%|██████████| 60000/60000 [11:00<00:00, 90.82it/s]
101 100%|██████████| 10000/10000 [00:53<00:00, 185.27it/s]
102 %%%%%%%%%%
103
104 Error Count: 826
105
106 Correct Rate: 91.74
107
108 100%|██████████| 60000/60000 [10:56<00:00, 91.45it/s]
109 100%|██████████| 10000/10000 [00:53<00:00, 187.69it/s]
110 0%|██████████| 0/60000 [00:00<?, ?it/s]
   ]%%%%%%%%%
111
112 Error Count: 817
113
114 Correct Rate: 91.83
115
116 100%|██████████| 60000/60000 [10:54<00:00, 91.64it/s]
117 100%|██████████| 10000/10000 [01:00<00:00, 166.54it/s]
118 %%%%%%%%%%
119
120 Error Count: 806
121
122 Correct Rate: 91.94
123
124 100%|██████████| 60000/60000 [11:24<00:00, 87.67it/s]
125 100%|██████████| 10000/10000 [00:55<00:00, 180.13it/s]
126 0%|██████████| 0/60000 [00:00<?, ?it/s]
   ]%%%%%%%%%
127
128 Error Count: 800
129
```

```
130 Correct Rate: 92.0
131
132 100%|██████████| 60000/60000 [11:15<00:00, 88.84it/s]
133 100%|██████████| 10000/10000 [00:54<00:00, 182.05it/s]
134 %%%%%%%%%%
135
136 Error Count: 790
137
138 Correct Rate: 92.10000000000001
139
140 100%|██████████| 60000/60000 [11:05<00:00, 90.19it/s]
141 100%|██████████| 10000/10000 [00:53<00:00, 186.82it/s]
142 0%|██████████| 0/60000 [00:00<?, ?it/s]
143 ]%%%%%%%%%
144 Error Count: 782
145
146 Correct Rate: 92.17999999999999
147
148 100%|██████████| 60000/60000 [11:06<00:00, 90.09it/s]
149 100%|██████████| 10000/10000 [00:54<00:00, 184.40it/s]
150 0%|██████████| 0/60000 [00:00<?, ?it/s]
151 ]%%%%%%%%%
152 Error Count: 782
153
154 Correct Rate: 92.17999999999999
155
156 100%|██████████| 60000/60000 [11:00<00:00, 90.86it/s]
157 100%|██████████| 10000/10000 [00:54<00:00, 184.88it/s]
158 %%%%%%%%%%
159
160 Error Count: 766
161
162 Correct Rate: 92.34
163
164
165 Process finished with exit code 0
166
```