```
 1 C:\Users\User\PycharmProjects\signTest\.venv\Scripts\
   python.exe C:\Users\User\PycharmProjects\signTest\
   modelA.py
 2 C:\Users\User\PycharmProjects\signTest\.venv\Lib\site
   -packages\torchvision\models\_utils.py:208:
   UserWarning: The parameter 'pretrained' is deprecated
    since 0.13 and may be removed in the future, please
   use 'weights' instead.
 3   warnings.warn(
 4 C:\Users\User\PycharmProjects\signTest\.venv\Lib\site
   -packages\torchvision\models\_utils.py:223:
   UserWarning: Arguments other than a weight enum or `
   None` for 'weights' are deprecated since 0.13 and may
    be removed in the future. The current behavior is
   equivalent to passing `weights=MobileNet_V2_Weights.
   IMAGENET1K_V1`. You can also use `weights=
   MobileNet_V2_Weights.DEFAULT` to get the most up-to-
   date weights.
 5   warnings.warn(msg)
 6 Epoch 1/100: 100%|██████████| 20/20 [02:56<00:00,  8.
   80s/batch, acc=0.0990, loss=3.5959]
 7
 8 Epoch 1/100 | Avg Loss: 3.5959 | Accuracy: 0.0990 |
   LR: 0.000100 | Time: 176.07s
 9
10 Epoch 2/100: 100%|██████████| 20/20 [02:50<00:00,  8.
   52s/batch, acc=0.1845, loss=3.5553]
11
12 Epoch 2/100 | Avg Loss: 3.5553 | Accuracy: 0.1845 |
   LR: 0.000100 | Time: 170.33s
13
14 Epoch 3/100: 100%|██████████| 20/20 [02:49<00:00,  8.
   47s/batch, acc=0.2219, loss=3.4905]
15
16 Epoch 3/100 | Avg Loss: 3.4905 | Accuracy: 0.2219 |
   LR: 0.000100 | Time: 169.38s
17
18 Epoch 4/100: 100%|██████████| 20/20 [02:50<00:00,  8.
   52s/batch, acc=0.2425, loss=3.4172]
19
20 Epoch 4/100 | Avg Loss: 3.4172 | Accuracy: 0.2425 |
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20 LR: 0.000100 | Time: 170.31s
21
22 Epoch 5/100: 100%|███████| 20/20 [02:48<00:00, 8.
   45s/batch, acc=0.2525, loss=3.3207]
23
24 Epoch 5/100 | Avg Loss: 3.3207 | Accuracy: 0.2525 |
   LR: 0.000100 | Time: 168.96s
25
26 Epoch 6/100: 100%|███████| 20/20 [02:49<00:00, 8.
   48s/batch, acc=0.2497, loss=3.2444]
27
28 Epoch 6/100 | Avg Loss: 3.2444 | Accuracy: 0.2497 |
   LR: 0.000100 | Time: 169.64s
29
30 Epoch 7/100: 100%|███████| 20/20 [02:49<00:00, 8.
   47s/batch, acc=0.2740, loss=3.1434]
31
32 Epoch 7/100 | Avg Loss: 3.1434 | Accuracy: 0.2740 |
   LR: 0.000100 | Time: 169.33s
33
34 Epoch 8/100: 100%|███████| 20/20 [02:48<00:00, 8.
   42s/batch, acc=0.2907, loss=3.0060]
35
36 Epoch 8/100 | Avg Loss: 3.0060 | Accuracy: 0.2907 |
   LR: 0.000100 | Time: 168.48s
37
38 Epoch 9/100: 100%|███████| 20/20 [02:49<00:00, 8.
   45s/batch, acc=0.3082, loss=2.9390]
39
40 Epoch 9/100 | Avg Loss: 2.9390 | Accuracy: 0.3082 |
   LR: 0.000100 | Time: 169.03s
41
42 Epoch 10/100: 100%|███████| 20/20 [02:49<00:00, 8
   .48s/batch, acc=0.3237, loss=2.8756]
43
44 Epoch 10/100 | Avg Loss: 2.8756 | Accuracy: 0.3237 |
   LR: 0.000100 | Time: 169.67s
45
46 Epoch 11/100: 100%|███████| 20/20 [02:48<00:00, 8
   .45s/batch, acc=0.3431, loss=2.8334]
47
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48 Epoch 11/100 | Avg Loss: 2.8334 | Accuracy: 0.3431 |
   LR: 0.000100 | Time: 168.91s
49
50 Epoch 12/100: 100%|          | 20/20 [02:48<00:00,  8
   .42s/batch, acc=0.3761, loss=2.7301]
51
52 Epoch 12/100 | Avg Loss: 2.7301 | Accuracy: 0.3761 |
   LR: 0.000100 | Time: 168.41s
53
54 Epoch 13/100: 100%|          | 20/20 [02:50<00:00,  8
   .51s/batch, acc=0.3785, loss=2.7072]
55
56 Epoch 13/100 | Avg Loss: 2.7072 | Accuracy: 0.3785 |
   LR: 0.000100 | Time: 170.25s
57
58 Epoch 14/100: 100%|          | 20/20 [02:50<00:00,  8
   .51s/batch, acc=0.4346, loss=2.5667]
59
60 Epoch 14/100 | Avg Loss: 2.5667 | Accuracy: 0.4346 |
   LR: 0.000100 | Time: 170.12s
61
62 Epoch 15/100: 100%|          | 20/20 [02:50<00:00,  8
   .51s/batch, acc=0.4227, loss=2.5375]
63
64 Epoch 15/100 | Avg Loss: 2.5375 | Accuracy: 0.4227 |
   LR: 0.000100 | Time: 170.15s
65
66 Epoch 16/100: 100%|          | 20/20 [02:49<00:00,  8
   .45s/batch, acc=0.4203, loss=2.5123]
67
68 Epoch 16/100 | Avg Loss: 2.5123 | Accuracy: 0.4203 |
   LR: 0.000100 | Time: 169.08s
69
70 Epoch 17/100: 100%|          | 20/20 [02:49<00:00,  8
   .50s/batch, acc=0.4417, loss=2.4257]
71
72 Epoch 17/100 | Avg Loss: 2.4257 | Accuracy: 0.4417 |
   LR: 0.000100 | Time: 169.97s
73
74 Epoch 18/100: 100%|          | 20/20 [02:48<00:00,  8
   .45s/batch, acc=0.4644, loss=2.3310]
```

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 75
 76 Epoch 18/100 | Avg Loss: 2.3310 | Accuracy: 0.4644
    | LR: 0.000100 | Time: 168.99s
 77
 78 Epoch 19/100: 100%|███████| 20/20 [02:48<00:00,
    8.43s/batch, acc=0.4581, loss=2.3177]
 79
 80 Epoch 19/100 | Avg Loss: 2.3177 | Accuracy: 0.4581
    | LR: 0.000100 | Time: 168.61s
 81
 82 Epoch 20/100: 100%|███████| 20/20 [02:48<00:00,
    8.41s/batch, acc=0.4763, loss=2.2436]
 83
 84 Epoch 20/100 | Avg Loss: 2.2436 | Accuracy: 0.4763
    | LR: 0.000100 | Time: 168.21s
 85
 86 Epoch 21/100: 100%|███████| 20/20 [02:50<00:00,
    8.53s/batch, acc=0.4708, loss=2.1889]
 87
 88 Epoch 21/100 | Avg Loss: 2.1889 | Accuracy: 0.4708
    | LR: 0.000100 | Time: 170.64s
 89
 90 Epoch 22/100: 100%|███████| 20/20 [02:49<00:00,
    8.46s/batch, acc=0.4684, loss=2.1772]
 91
 92 Epoch 22/100 | Avg Loss: 2.1772 | Accuracy: 0.4684
    | LR: 0.000100 | Time: 169.16s
 93
 94 Epoch 23/100: 100%|███████| 20/20 [02:49<00:00,
    8.47s/batch, acc=0.4592, loss=2.1617]
 95
 96 Epoch 23/100 | Avg Loss: 2.1617 | Accuracy: 0.4592
    | LR: 0.000100 | Time: 169.41s
 97
 98 Epoch 24/100: 100%|███████| 20/20 [02:49<00:00,
    8.49s/batch, acc=0.4819, loss=2.0689]
 99
100 Epoch 24/100 | Avg Loss: 2.0689 | Accuracy: 0.4819
    | LR: 0.000100 | Time: 169.82s
101
102 Epoch 25/100: 100%|███████| 20/20 [02:50<00:00,
```

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102 8.52s/batch, acc=0.4863, loss=1.9935]
103
104 Epoch 25/100 | Avg Loss: 1.9935 | Accuracy: 0.4863
       | LR: 0.000100 | Time: 170.32s
105
106 Epoch 26/100: 100%|███████████| 20/20 [02:49<00:00,
    8.46s/batch, acc=0.4847, loss=1.9770]
107
108 Epoch 26/100 | Avg Loss: 1.9770 | Accuracy: 0.4847
       | LR: 0.000100 | Time: 169.28s
109
110 Epoch 27/100: 100%|███████████| 20/20 [02:50<00:00,
    8.55s/batch, acc=0.4895, loss=1.9240]
111
112 Epoch 27/100 | Avg Loss: 1.9240 | Accuracy: 0.4895
       | LR: 0.000100 | Time: 170.92s
113
114 Epoch 28/100: 100%|███████████| 20/20 [02:50<00:00,
    8.51s/batch, acc=0.4903, loss=1.8795]
115
116 Epoch 28/100 | Avg Loss: 1.8795 | Accuracy: 0.4903
       | LR: 0.000100 | Time: 170.20s
117
118 Epoch 29/100: 100%|███████████| 20/20 [02:50<00:00,
    8.51s/batch, acc=0.4863, loss=1.8638]
119
120 Epoch 29/100 | Avg Loss: 1.8638 | Accuracy: 0.4863
       | LR: 0.000100 | Time: 170.12s
121
122 Epoch 30/100: 100%|███████████| 20/20 [02:50<00:00,
    8.53s/batch, acc=0.4974, loss=1.7936]
123
124 Epoch 30/100 | Avg Loss: 1.7936 | Accuracy: 0.4974
       | LR: 0.000100 | Time: 170.71s
125
126 Epoch 31/100: 100%|███████████| 20/20 [02:51<00:00,
    8.57s/batch, acc=0.4859, loss=1.8019]
127
128 Epoch 31/100 | Avg Loss: 1.8019 | Accuracy: 0.4859
       | LR: 0.000100 | Time: 171.45s
129
```

```
130 Epoch 32/100: 100%|███████████| 20/20 [02:49<00:00,
    8.49s/batch, acc=0.5034, loss=1.7265]
131
132 Epoch 32/100 | Avg Loss: 1.7265 | Accuracy: 0.5034
    | LR: 0.000100 | Time: 169.76s
133
134 Epoch 33/100: 100%|███████████| 20/20 [02:50<00:00,
    8.51s/batch, acc=0.5054, loss=1.7023]
135
136 Epoch 33/100 | Avg Loss: 1.7023 | Accuracy: 0.5054
    | LR: 0.000100 | Time: 170.18s
137
138 Epoch 34/100: 100%|███████████| 20/20 [02:58<00:00,
    8.91s/batch, acc=0.4986, loss=1.7029]
139
140 Epoch 34/100 | Avg Loss: 1.7029 | Accuracy: 0.4986
    | LR: 0.000100 | Time: 178.18s
141
142 Epoch 35/100: 100%|███████████| 20/20 [03:06<00:00,
    9.33s/batch, acc=0.5006, loss=1.6728]
143
144 Epoch 35/100 | Avg Loss: 1.6728 | Accuracy: 0.5006
    | LR: 0.000100 | Time: 186.52s
145
146 Epoch 36/100: 100%|███████████| 20/20 [02:53<00:00,
    8.65s/batch, acc=0.5121, loss=1.6327]
147
148 Epoch 36/100 | Avg Loss: 1.6327 | Accuracy: 0.5121
    | LR: 0.000100 | Time: 173.11s
149
150 Epoch 37/100: 100%|███████████| 20/20 [02:50<00:00,
    8.55s/batch, acc=0.5241, loss=1.5804]
151
152 Epoch 37/100 | Avg Loss: 1.5804 | Accuracy: 0.5241
    | LR: 0.000100 | Time: 170.95s
153
154 Epoch 38/100: 100%|███████████| 20/20 [02:50<00:00,
    8.53s/batch, acc=0.5161, loss=1.5867]
155
156 Epoch 38/100 | Avg Loss: 1.5867 | Accuracy: 0.5161
    | LR: 0.000100 | Time: 170.58s
```

```
157
158 Epoch 39/100: 100%|█████████| 20/20 [02:48<00:00,
     8.44s/batch, acc=0.4899, loss=1.6835]
159
160 Epoch 39/100 | Avg Loss: 1.6835 | Accuracy: 0.4899
     | LR: 0.000100 | Time: 168.82s
161
162 Epoch 40/100: 100%|█████████| 20/20 [02:50<00:00,
     8.50s/batch, acc=0.5082, loss=1.6053]
163
164 Epoch 40/100 | Avg Loss: 1.6053 | Accuracy: 0.5082
     | LR: 0.000100 | Time: 170.05s
165
166 Epoch 41/100: 100%|█████████| 20/20 [02:52<00:00,
     8.62s/batch, acc=0.5256, loss=1.5414]
167
168 Epoch 41/100 | Avg Loss: 1.5414 | Accuracy: 0.5256
     | LR: 0.000100 | Time: 172.43s
169
170 Epoch 42/100: 100%|█████████| 20/20 [02:50<00:00,
     8.54s/batch, acc=0.4958, loss=1.6196]
171
172 Epoch 42/100 | Avg Loss: 1.6196 | Accuracy: 0.4958
     | LR: 0.000100 | Time: 170.75s
173
174 Epoch 43/100: 100%|█████████| 20/20 [02:48<00:00,
     8.44s/batch, acc=0.5082, loss=1.5707]
175
176 Epoch 43/100 | Avg Loss: 1.5707 | Accuracy: 0.5082
     | LR: 0.000100 | Time: 168.90s
177
178 Epoch 44/100: 100%|█████████| 20/20 [02:49<00:00,
     8.48s/batch, acc=0.5105, loss=1.5620]
179
180 Epoch 44/100 | Avg Loss: 1.5620 | Accuracy: 0.5105
     | LR: 0.000100 | Time: 169.67s
181
182 Epoch 45/100: 100%|█████████| 20/20 [02:49<00:00,
     8.47s/batch, acc=0.5137, loss=1.5412]
183
184 Epoch 45/100 | Avg Loss: 1.5412 | Accuracy: 0.5137
```

```
184   | LR: 0.000100 | Time: 169.36s
185
186 Epoch 46/100: 100%|███████████| 20/20 [02:49<00:00,
      8.48s/batch, acc=0.5217, loss=1.5440]
187
188 Epoch 46/100 | Avg Loss: 1.5440 | Accuracy: 0.5217
      | LR: 0.000100 | Time: 169.52s
189
190 Epoch 47/100: 100%|███████████| 20/20 [02:49<00:00,
      8.47s/batch, acc=0.5217, loss=1.5324]
191
192 Epoch 47/100 | Avg Loss: 1.5324 | Accuracy: 0.5217
      | LR: 0.000100 | Time: 169.42s
193
194 Epoch 48/100: 100%|███████████| 20/20 [02:49<00:00,
      8.47s/batch, acc=0.5404, loss=1.4770]
195
196 Epoch 48/100 | Avg Loss: 1.4770 | Accuracy: 0.5404
      | LR: 0.000100 | Time: 169.40s
197
198 Epoch 49/100: 100%|███████████| 20/20 [02:48<00:00,
      8.45s/batch, acc=0.5165, loss=1.5403]
199
200 Epoch 49/100 | Avg Loss: 1.5403 | Accuracy: 0.5165
      | LR: 0.000100 | Time: 168.97s
201
202 Epoch 50/100: 100%|███████████| 20/20 [02:49<00:00,
      8.46s/batch, acc=0.5241, loss=1.4990]
203
204 Epoch 50/100 | Avg Loss: 1.4990 | Accuracy: 0.5241
      | LR: 0.000100 | Time: 169.22s
205
206 Epoch 51/100: 100%|███████████| 20/20 [02:49<00:00,
      8.47s/batch, acc=0.5249, loss=1.5118]
207
208 Epoch 51/100 | Avg Loss: 1.5118 | Accuracy: 0.5249
      | LR: 0.000100 | Time: 169.35s
209
210 Epoch 52/100: 100%|███████████| 20/20 [02:49<00:00,
      8.47s/batch, acc=0.5113, loss=1.5548]
211
```

```
212 Epoch 52/100 | Avg Loss: 1.5548 | Accuracy: 0.5113
       | LR: 0.000100 | Time: 169.45s
213
214 Epoch 53/100: 100%|███████████| 20/20 [02:48<00:00,
     8.44s/batch, acc=0.5245, loss=1.5212]
215
216 Epoch 53/100 | Avg Loss: 1.5212 | Accuracy: 0.5245
       | LR: 0.000100 | Time: 168.80s
217
218 Epoch 54/100: 100%|███████████| 20/20 [02:50<00:00,
     8.50s/batch, acc=0.5229, loss=1.5219]
219
220 Epoch 54/100 | Avg Loss: 1.5219 | Accuracy: 0.5229
       | LR: 0.000100 | Time: 170.02s
221
222 Epoch 55/100: 100%|███████████| 20/20 [02:51<00:00,
     8.55s/batch, acc=0.5113, loss=1.5495]
223
224 Epoch 55/100 | Avg Loss: 1.5495 | Accuracy: 0.5113
       | LR: 0.000100 | Time: 171.05s
225
226
```