```
 1 F:\Tasarım\Deneme1\venv\Scripts\python.exe F
   :/Tasarım/Deneme1/train.py
 2 2021-11-13 12:30:18.466962: W tensorflow/
   stream_executor/platform/default/dso_loader.
   cc:64] Could not load dynamic library '
   cudart64_110.dll'; dlerror: cudart64_110.dll
   not found
 3 2021-11-13 12:30:18.467170: I tensorflow/
   stream_executor/cuda/cudart_stub.cc:29]
   Ignore above cudart dlerror if you do not
   have a GPU set up on your machine.
 4 2021-11-13 12:30:38.126275: W tensorflow/
   stream_executor/platform/default/dso_loader.
   cc:64] Could not load dynamic library '
   cudart64_110.dll'; dlerror: cudart64_110.dll
   not found
 5 2021-11-13 12:30:38.127360: W tensorflow/
   stream_executor/platform/default/dso_loader.
   cc:64] Could not load dynamic library '
   cublas64_11.dll'; dlerror: cublas64_11.dll
   not found
 6 2021-11-13 12:30:38.128549: W tensorflow/
   stream_executor/platform/default/dso_loader.
   cc:64] Could not load dynamic library '
   cublasLt64_11.dll'; dlerror: cublasLt64_11.
   dll not found
 7 2021-11-13 12:30:38.129621: W tensorflow/
   stream_executor/platform/default/dso_loader.
   cc:64] Could not load dynamic library '
   cufft64_10.dll'; dlerror: cufft64_10.dll not
   found
 8 2021-11-13 12:30:38.130690: W tensorflow/
   stream_executor/platform/default/dso_loader.
   cc:64] Could not load dynamic library '
   curand64_10.dll'; dlerror: curand64_10.dll
```

```
 8 not found
 9 2021-11-13 12:30:38.131740: W tensorflow/
   stream_executor/platform/default/dso_loader.
   cc:64] Could not load dynamic library '
   cusolver64_11.dll'; dlerror: cusolver64_11.
   dll not found
10 2021-11-13 12:30:38.132791: W tensorflow/
   stream_executor/platform/default/dso_loader.
   cc:64] Could not load dynamic library '
   cusparse64_11.dll'; dlerror: cusparse64_11.
   dll not found
11 2021-11-13 12:30:38.133870: W tensorflow/
   stream_executor/platform/default/dso_loader.
   cc:64] Could not load dynamic library '
   cudnn64_8.dll'; dlerror: cudnn64_8.dll not
   found
12 2021-11-13 12:30:38.134103: W tensorflow/core
   /common_runtime/gpu/gpu_device.cc:1835]
   Cannot dlopen some GPU libraries. Please make
    sure the missing libraries mentioned above
   are installed properly if you would like to
   use GPU. Follow the guide at https://www.
   tensorflow.org/install/gpu for how to
   download and setup the required libraries for
    your platform.
13 Skipping registering GPU devices...
14 2021-11-13 12:30:38.134727: I tensorflow/core
   /platform/cpu_feature_guard.cc:142] This
   TensorFlow binary is optimized with oneAPI
   Deep Neural Network Library (oneDNN) to use
   the following CPU instructions in performance
   -critical operations:  AVX AVX2
15 To enable them in other operations, rebuild
   TensorFlow with the appropriate compiler
   flags.
```

```
16 Model: "sequential"
17 _____
18 Layer (type)                    Output Shape
                      Param #
19 ======================================================
20 conv2d (Conv2D)                 (None, 42, 11,
   64)          640
21 _____
22 batch_normalization (BatchNo (None, 42, 11,
   64)          256
23 _____
24 max_pooling2d (MaxPooling2D) (None, 21, 6, 64
   )          0
25 _____
26 conv2d_1 (Conv2D)               (None, 19, 4, 32
   )          18464
27 _____
28 batch_normalization_1 (Batch (None, 19, 4, 32
   )          128
29 _____
30 max_pooling2d_1 (MaxPooling2 (None, 10, 2, 32
   )          0
31 _____
32 conv2d_2 (Conv2D)               (None, 9, 1, 32
   )          4128
33 _____
```

```
34 batch_normalization_2 (Batch (None, 9, 1, 32
   )                    128
35 _____
   _____
36 max_pooling2d_2 (MaxPooling2 (None, 5, 1, 32
   )                    0
37 _____
   _____
38 flatten (Flatten)            (None, 160
   )                    0
39 _____
   _____
40 dense (Dense)                (None, 64
   )                    10304
41 _____
   _____
42 dropout (Dropout)            (None, 64
   )                    0
43 _____
   _____
44 dense_1 (Dense)              (None, 10
   )                    650
45 ============================================
   ====================
46 Total params: 34,698
47 Trainable params: 34,442
48 Non-trainable params: 256
49 _____
   _____
50 2021-11-13 12:30:38.245712: I tensorflow/
   compiler/mlir/mlir_graph_optimization_pass.cc
   :185] None of the MLIR Optimization Passes
   are enabled (registered 2)
51 Epoch 1/30
52 540/540 [============================] -
```

```
52 11s 20ms/step - loss: 2.9621 - accuracy: 0.
   1310 - val_loss: 2.5391 - val_accuracy: 0.
   1507
53 Epoch 2/30
54 540/540 [==============================] -
   10s 19ms/step - loss: 2.7069 - accuracy: 0.
   1561 - val_loss: 2.3912 - val_accuracy: 0.
   1809
55 Epoch 3/30
56 540/540 [==============================] -
   11s 21ms/step - loss: 2.5425 - accuracy: 0.
   1811 - val_loss: 2.2638 - val_accuracy: 0.
   2075
57 Epoch 4/30
58 540/540 [==============================] -
   10s 19ms/step - loss: 2.4235 - accuracy: 0.
   2035 - val_loss: 2.1579 - val_accuracy: 0.
   2388
59 Epoch 5/30
60 540/540 [==============================] -
   10s 19ms/step - loss: 2.3229 - accuracy: 0.
   2316 - val_loss: 2.0747 - val_accuracy: 0.
   2805
61 Epoch 6/30
62 540/540 [==============================] -
   10s 19ms/step - loss: 2.2385 - accuracy: 0.
   2587 - val_loss: 1.9965 - val_accuracy: 0.
   3066
63 Epoch 7/30
64 540/540 [==============================] -
   10s 19ms/step - loss: 2.1759 - accuracy: 0.
   2717 - val_loss: 1.9326 - val_accuracy: 0.
   3446
65 Epoch 8/30
66 540/540 [==============================] -
```

66 10s 19ms/step - loss: 2.1057 - accuracy: 0.
    2894 - val_loss: 1.8653 - val_accuracy: 0.
    3723
67 Epoch 9/30
68 540/540 [==============================] -
    10s 19ms/step - loss: 2.0506 - accuracy: 0.
    3085 - val_loss: 1.8272 - val_accuracy: 0.
    3806
69 Epoch 10/30
70 540/540 [==============================] -
    10s 19ms/step - loss: 1.9991 - accuracy: 0.
    3266 - val_loss: 1.7728 - val_accuracy: 0.
    4098
71 Epoch 11/30
72 540/540 [==============================] -
    11s 20ms/step - loss: 1.9540 - accuracy: 0.
    3460 - val_loss: 1.7315 - val_accuracy: 0.
    4249
73 Epoch 12/30
74 540/540 [==============================] -
    10s 19ms/step - loss: 1.9041 - accuracy: 0.
    3609 - val_loss: 1.6910 - val_accuracy: 0.
    4536
75 Epoch 13/30
76 540/540 [==============================] -
    10s 19ms/step - loss: 1.8662 - accuracy: 0.
    3757 - val_loss: 1.6529 - val_accuracy: 0.
    4718
77 Epoch 14/30
78 540/540 [==============================] -
    10s 19ms/step - loss: 1.8230 - accuracy: 0.
    3894 - val_loss: 1.6195 - val_accuracy: 0.
    4818
79 Epoch 15/30
80 540/540 [==============================] -

```
80 10s 19ms/step - loss: 1.7789 - accuracy: 0.
   4013 - val_loss: 1.5840 - val_accuracy: 0.
   5036
81 Epoch 16/30
82 540/540 [==============================] -
   10s 19ms/step - loss: 1.7580 - accuracy: 0.
   4161 - val_loss: 1.5558 - val_accuracy: 0.
   5172
83 Epoch 17/30
84 540/540 [==============================] -
   10s 19ms/step - loss: 1.7276 - accuracy: 0.
   4242 - val_loss: 1.5355 - val_accuracy: 0.
   5255
85 Epoch 18/30
86 540/540 [==============================] -
   10s 19ms/step - loss: 1.7063 - accuracy: 0.
   4326 - val_loss: 1.5135 - val_accuracy: 0.
   5302
87 Epoch 19/30
88 540/540 [==============================] -
   10s 19ms/step - loss: 1.6741 - accuracy: 0.
   4431 - val_loss: 1.4822 - val_accuracy: 0.
   5365
89 Epoch 20/30
90 540/540 [==============================] -
   10s 19ms/step - loss: 1.6471 - accuracy: 0.
   4560 - val_loss: 1.4502 - val_accuracy: 0.
   5542
91 Epoch 21/30
92 540/540 [==============================] -
   10s 19ms/step - loss: 1.6209 - accuracy: 0.
   4666 - val_loss: 1.4296 - val_accuracy: 0.
   5605
93 Epoch 22/30
94 540/540 [==============================] -
```

```
 94 10s 19ms/step - loss: 1.5964 - accuracy: 0.
    4752 - val_loss: 1.4032 - val_accuracy: 0.
    5808
 95 Epoch 23/30
 96 540/540 [==============================] -
    10s 19ms/step - loss: 1.5819 - accuracy: 0.
    4809 - val_loss: 1.3890 - val_accuracy: 0.
    5766
 97 Epoch 24/30
 98 540/540 [==============================] -
    10s 19ms/step - loss: 1.5594 - accuracy: 0.
    4870 - val_loss: 1.3616 - val_accuracy: 0.
    5892
 99 Epoch 25/30
100 540/540 [==============================] -
    10s 19ms/step - loss: 1.5361 - accuracy: 0.
    4965 - val_loss: 1.3440 - val_accuracy: 0.
    5985
101 Epoch 26/30
102 540/540 [==============================] -
    10s 19ms/step - loss: 1.5259 - accuracy: 0.
    5005 - val_loss: 1.3270 - val_accuracy: 0.
    6017
103 Epoch 27/30
104 540/540 [==============================] -
    10s 19ms/step - loss: 1.4985 - accuracy: 0.
    5114 - val_loss: 1.3077 - val_accuracy: 0.
    6100
105 Epoch 28/30
106 540/540 [==============================] -
    10s 19ms/step - loss: 1.4792 - accuracy: 0.
    5167 - val_loss: 1.2898 - val_accuracy: 0.
    6173
107 Epoch 29/30
108 540/540 [==============================] -
```

```
108 10s 19ms/step - loss: 1.4586 - accuracy: 0.
    5322 - val_loss: 1.2618 - val_accuracy: 0.
    6173
109 Epoch 30/30
110 540/540 [==============================] -
    10s 18ms/step - loss: 1.4344 - accuracy: 0.
    5366 - val_loss: 1.2514 - val_accuracy: 0.
    6267
111 67/67 [==============================] - 0s
    4ms/step - loss: 1.2505 - accuracy: 0.6341
112 Test error: 1.2504667043685913, test
    accuracy: 0.6341463327407837
113
114 Process finished with exit code 0
115
```