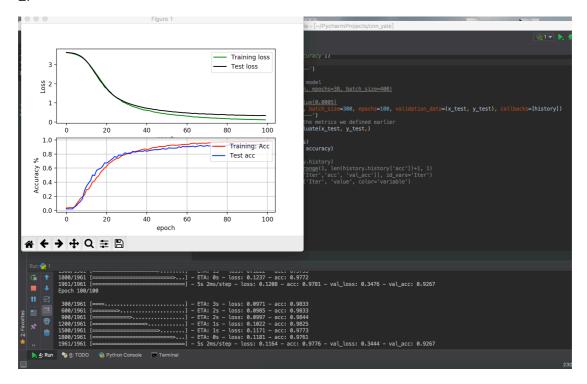
1.

Layer (type)	Output	Shape	Param #
conv2d_1 (Conv2D)	(None,	48, 48, 16)	416
activation_1 (Activation)	(None,	48, 48, 16)	0
max_pooling2d_1 (MaxPooling2	(None,	24, 24, 16)	0
conv2d_2 (Conv2D)	(None,	24, 24, 36)	14436
activation_2 (Activation)	(None,	24, 24, 36)	0
max_pooling2d_2 (MaxPooling2	(None,	12, 12, 36)	0
dropout_1 (Dropout)	(None,	12, 12, 36)	0
flatten_1 (Flatten)	(None,	5184)	0
dense_1 (Dense)	(None,	512)	2654720
activation_3 (Activation)	(None,	512)	0
dense_2 (Dense)	(None,	38)	19494
activation_4 (Activation)	(None,	38)	0

Total params: 2,689,066
Trainable params: 2,689,066
Non-trainable params: 0



3.

```
model.fit(x_train, y_train, batch_size=300, epochs=100, v
print('\nTesting -----')
# Evaluate the model with the metrics we defined earlier
loss, accuracy = model.evaluate(x_test, y_test,)
                                   _size=300, epochs=100, validation_data=(x_test, y_test), callbacks=[history])
print('\ntest loss: ', loss)
print('\ntest accuracy: ', accuracy)
                224/491 [=
                                                                                 - ETA: 0s
                288/491 [=
               352/491 [:
                                                               >.....] - ETA: 0s
                                                                     >.....] - ETA: 0s
               416/491 [=
                                                                     ====>.] - ETA: 0s
               480/491 [==
                                                                ======] - 0s 920us/step
               491/491 [======
                test loss: 0.3443894388719392
                test accuracy: 0.9266802441563966
  📐 <u>4</u>: Run 🗣 <u>6</u>: TODO 📥 Python Console 🗾 Terminal
```

