# **ASL Interpreter Testing**

# Run asl script

```
In [ ]: run asl.py
```

## Create asl object

```
In [ ]: asl = Asl()
```

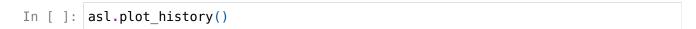
Model: "sequential\_1"

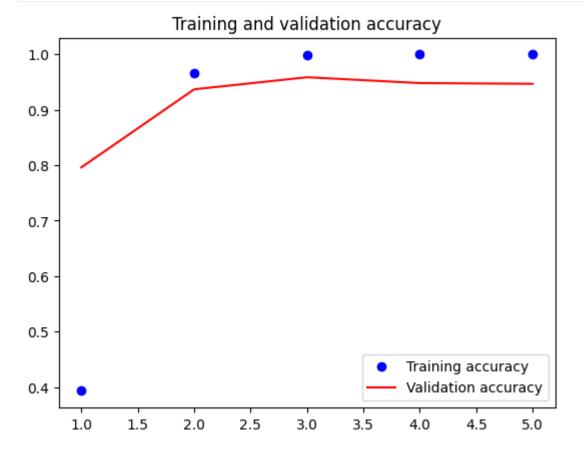
Layer (type) 	Output Shape	Param #
conv2d_3 (Conv2D)	(None, 28, 28, 32)	320
<pre>max_pooling2d_3 (MaxPooling 2D)</pre>	(None, 14, 14, 32)	0
conv2d_4 (Conv2D)	(None, 14, 14, 64)	18496
<pre>max_pooling2d_4 (MaxPooling 2D)</pre>	(None, 7, 7, 64)	0
conv2d_5 (Conv2D)	(None, 7, 7, 128)	73856
<pre>max_pooling2d_5 (MaxPooling 2D)</pre>	(None, 3, 3, 128)	0
flatten_1 (Flatten)	(None, 1152)	0
dense_2 (Dense)	(None, 512)	590336
dense_3 (Dense)	(None, 24)	12312
	•	Param #
conv2d_3 (Conv2D)		
<pre>max_pooling2d_3 (MaxPooling 2D)</pre>	(None, 14, 14, 32)	0
20)		
conv2d_4 (Conv2D)	(None, 14, 14, 64)	18496
		18496 0
<pre>conv2d_4 (Conv2D) max_pooling2d_4 (MaxPooling</pre>		
<pre>conv2d_4 (Conv2D) max_pooling2d_4 (MaxPooling 2D)</pre>	(None, 7, 7, 64) (None, 7, 7, 128)	Θ
<pre>conv2d_4 (Conv2D)  max_pooling2d_4 (MaxPooling 2D)  conv2d_5 (Conv2D)  max_pooling2d_5 (MaxPooling</pre>	(None, 7, 7, 64) (None, 7, 7, 128)	0 73856
<pre>conv2d_4 (Conv2D)  max_pooling2d_4 (MaxPooling 2D)  conv2d_5 (Conv2D)  max_pooling2d_5 (MaxPooling 2D)</pre>	(None, 7, 7, 64)  (None, 7, 7, 128)  (None, 3, 3, 128)	0 73856 0

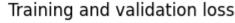
Non-trainable params: 0

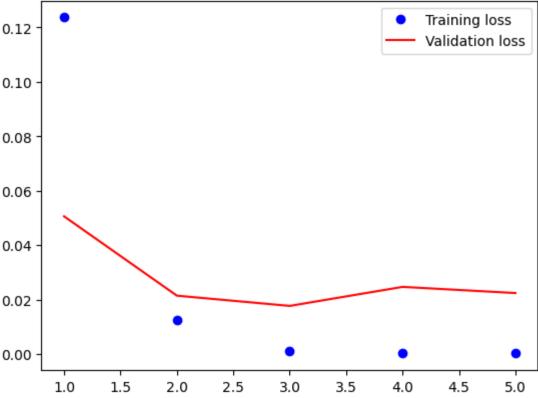
### Train asl model passing number of epochs

#### Plot model training vs epochs



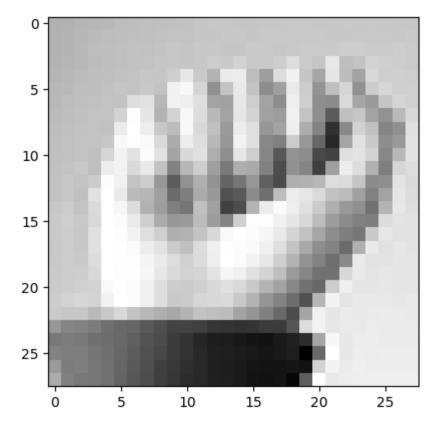






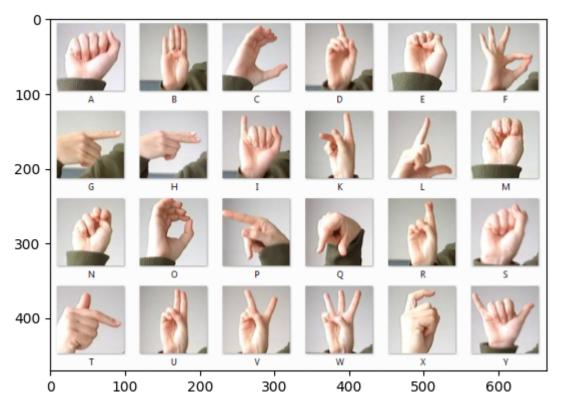
#### Print out loss asn accuracy of trained model

### Test trained model using prediciton



### Load lookup table of ASL to check prediction against





Comparing the prediciton print out and image vs the look up tabel we can see the prediciton was accurate