- 1. Supervised learning is where the data has labels. Continues output is for Regression (Linear, & Noval Networks) & Cateogenical for Classification
- 2. Label encoding maps data to a certain index in the same column. OHE creates a new distin a new binary feature for each label
- 3. Overfitting is where a model fails to generalize learning the training set & failing on the test set. A common way to prevent this in Tensorflow is by using Early Stopping.
- 4. The output will be a 4x4 image

5c.

model = Sequential ()

model add (Conv 2D (3, temel=size=(4,4), strides=(1,1), input_shape = (13,13,1),

activation = 'relv')

model add (Max Pooling 2D (Pool_size=(2,2), Strides (2,2))

model add (Dense (4, artivation = 'softmax'))

5d.
model. compile(loss = categorical_crossentropy, aptimezer= adam')