AOBD Lab 2

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Errors faced and obtained solution (if found)

Problem: 1

```
'''TODO: Define the compile operation with your optimizer and learning rate of choice'''
cnn_model.compile(optimizer='''TODO''', loss='sparse_categorical_crossentropy', metrics=['accuracy']) # TODO
```

Solution: Unable to figure out todo part of optimizer.

Problem: 2

```
0% | 0/5000 [00:00<?, ?it/s]
                                       Traceback (most recent call last)
<ipython-input-20-ac3bdac688af> in <module>()
           #'''TODO: compute the categorical cross entropy loss
    21
---> 22
          loss_value = tf.keras.backend.sparse_categorical_crossentropy(logits) # TODO
    24 loss_history.append(loss_value.numpy().mean()) # append the loss to the loss_history record
/usr/local/lib/python3.7/dist-packages/tensorflow/python/util/dispatch.py in wrapper(*args, **kwargs)
           """Call target, and fall back on dispatchers if there is a TypeError.
   200
           return target(*args, **kwargs)
--> 201
   202
         except (TypeError, ValueError):
            # Note: convert_to_eager_tensor currently raises a ValueError, not a
TypeError: sparse categorical crossentropy() missing 1 required positional argument: 'output'
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```

Solution: argument missing on the function call solved by adding labels in the argument

Problem: 3

Solution: tf is not detected, solved after re running the previous modules

Problem: 4

Solution: unsolved error