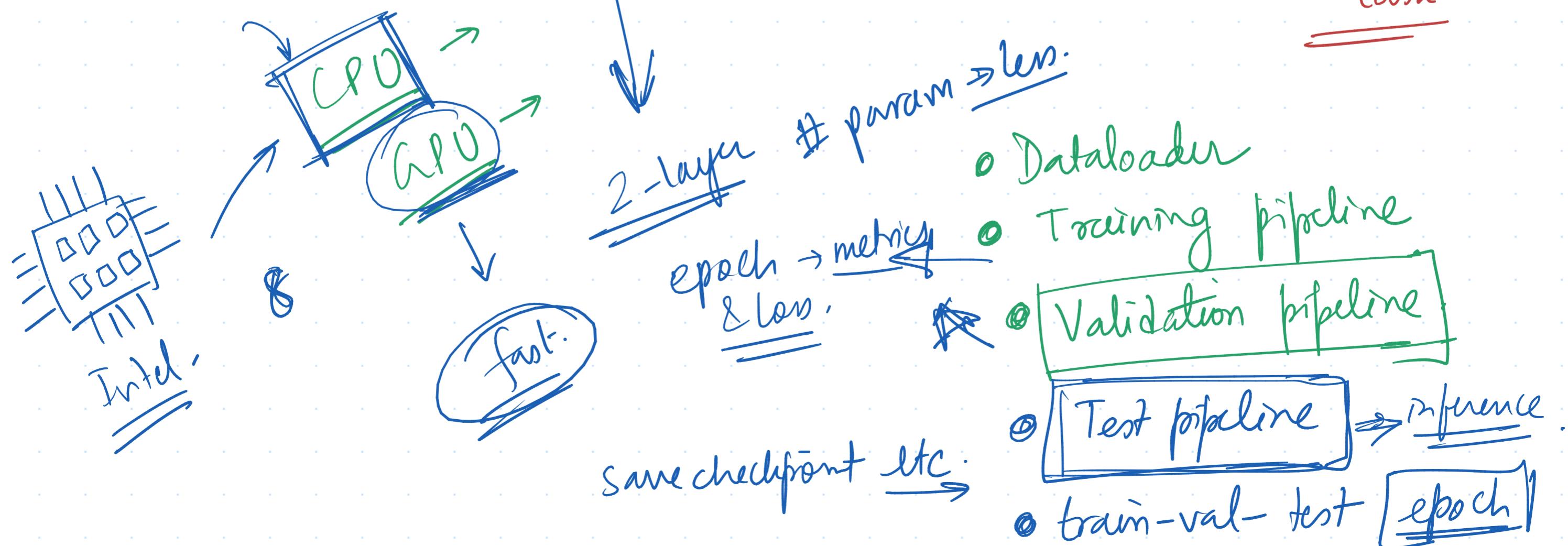
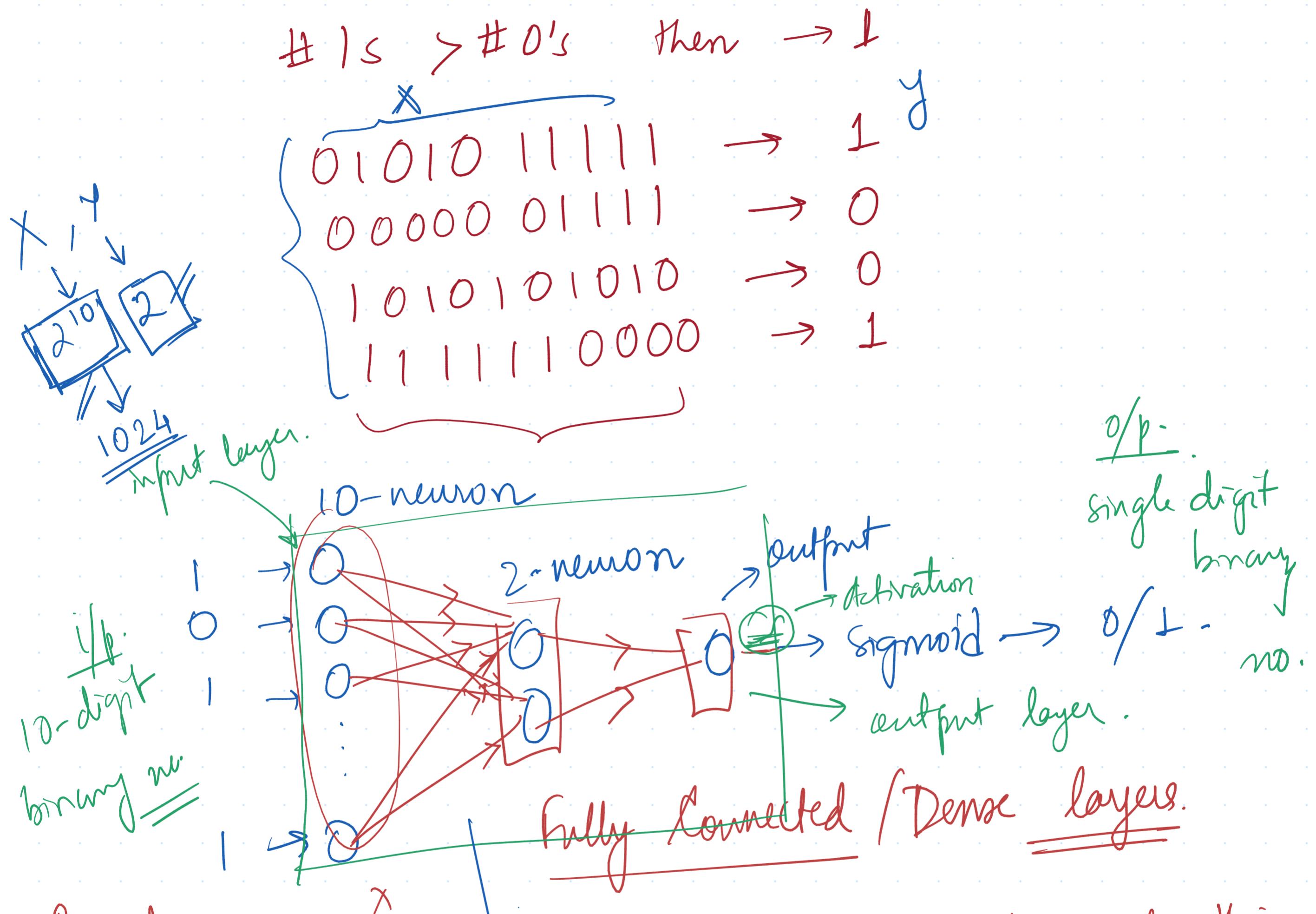
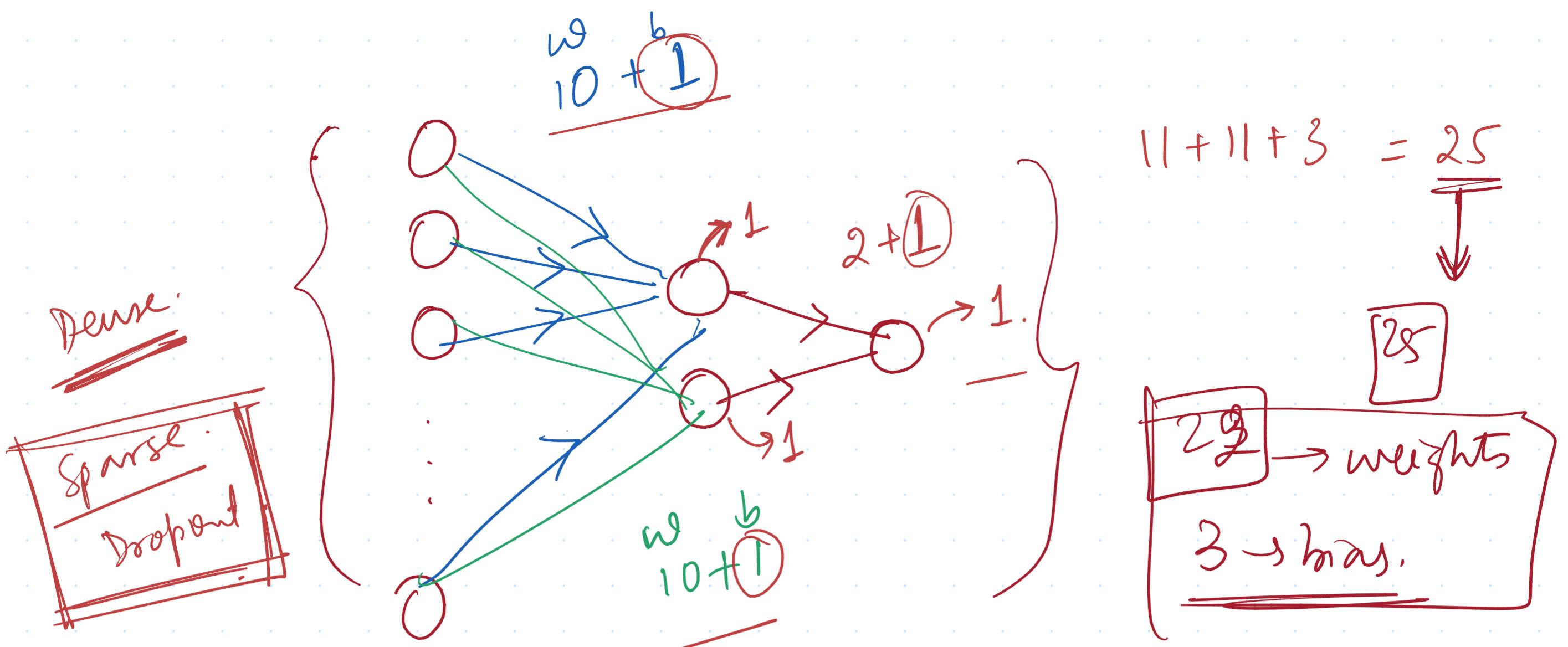


Designing classification Pipeline using Pytorch

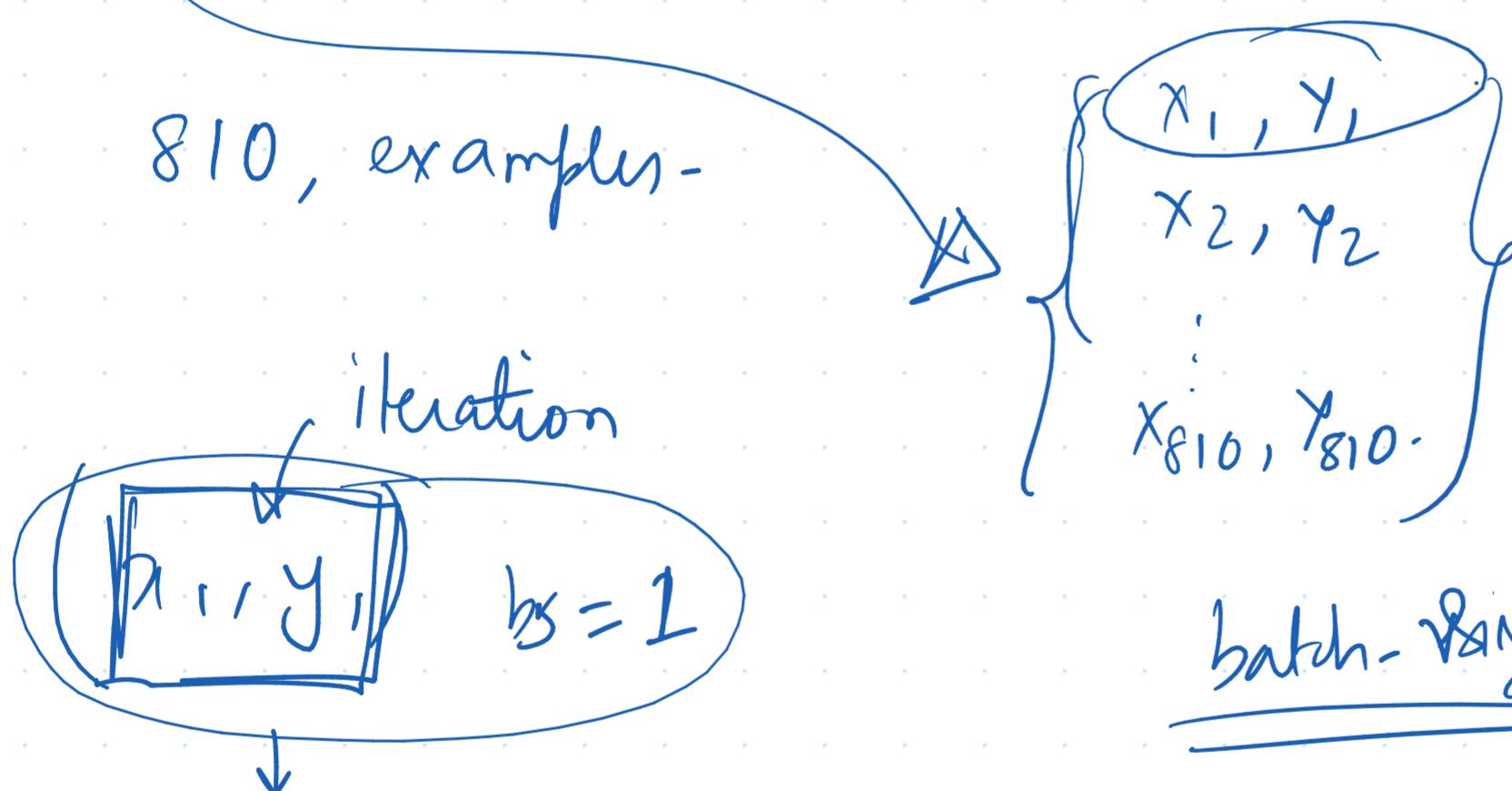
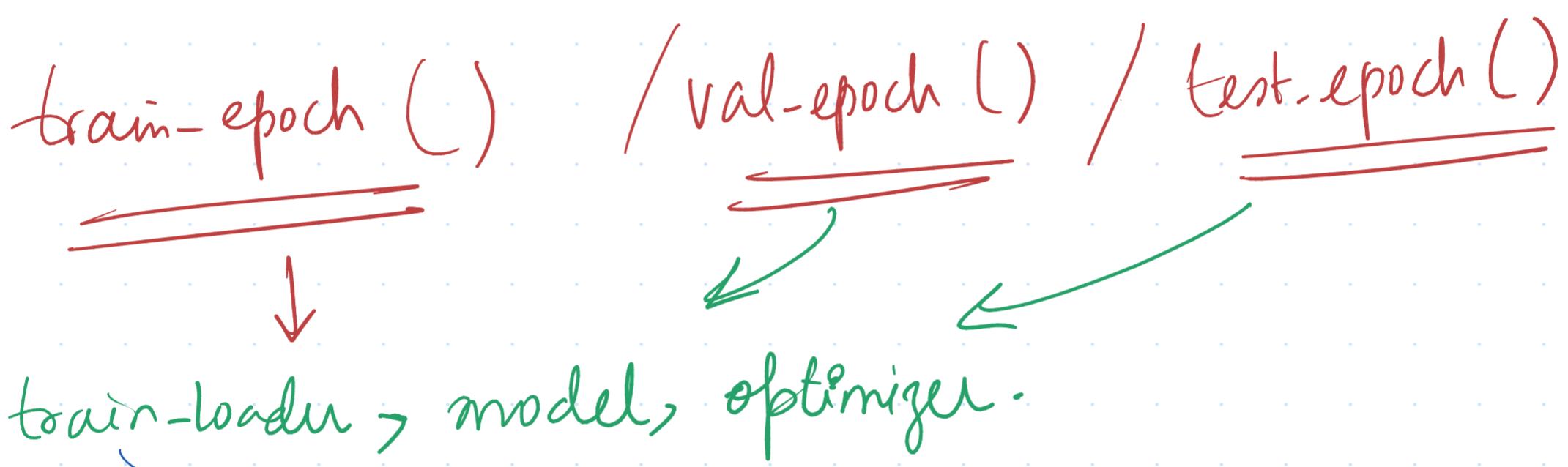
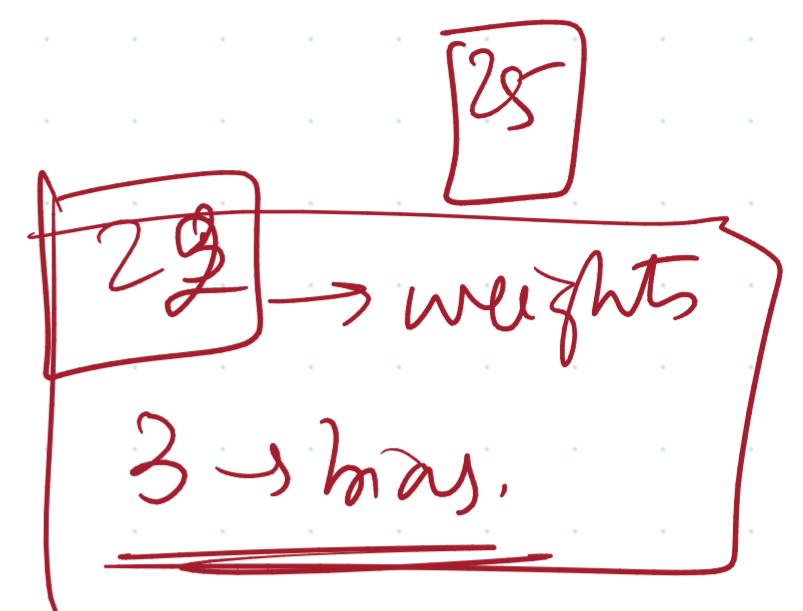
16/02/2025

Task: Create a simulated dataset for binary digits.
10-digit binary numbers.

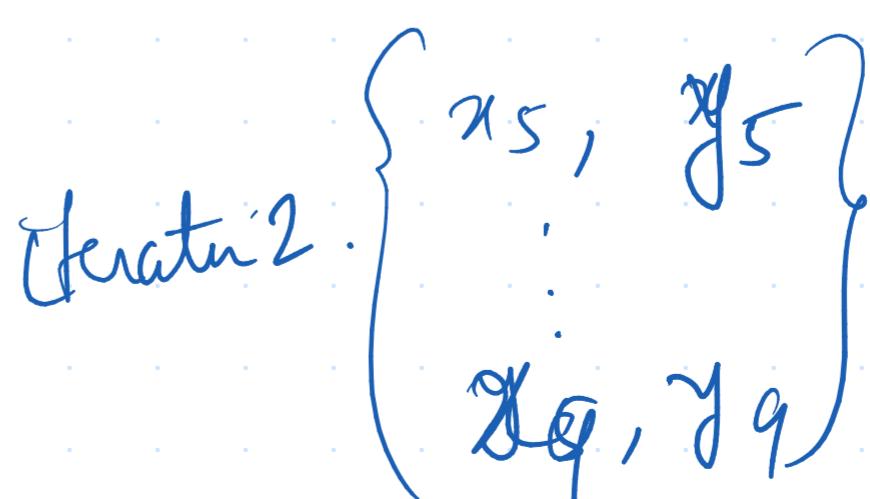
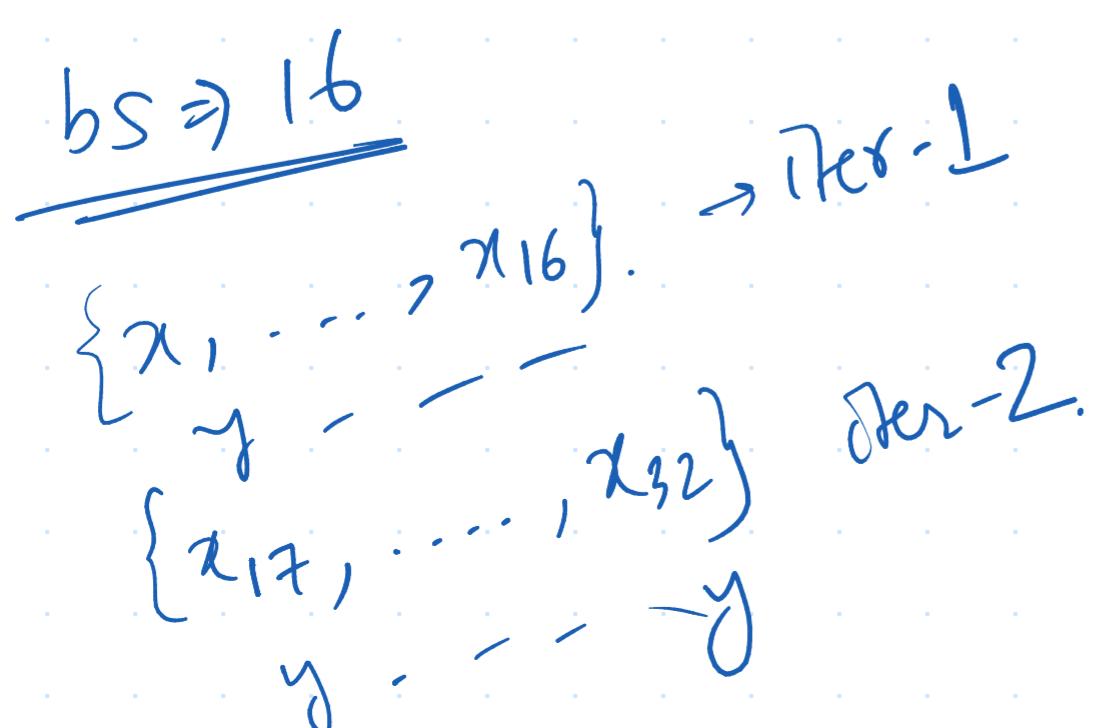
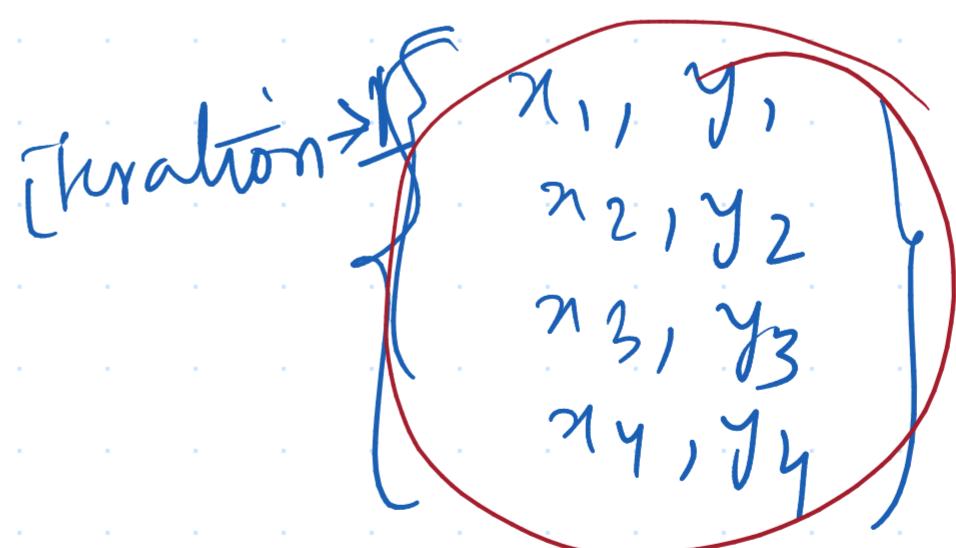




$$11 + 11 + 3 = \underline{\underline{25}}$$



batch-size = 4



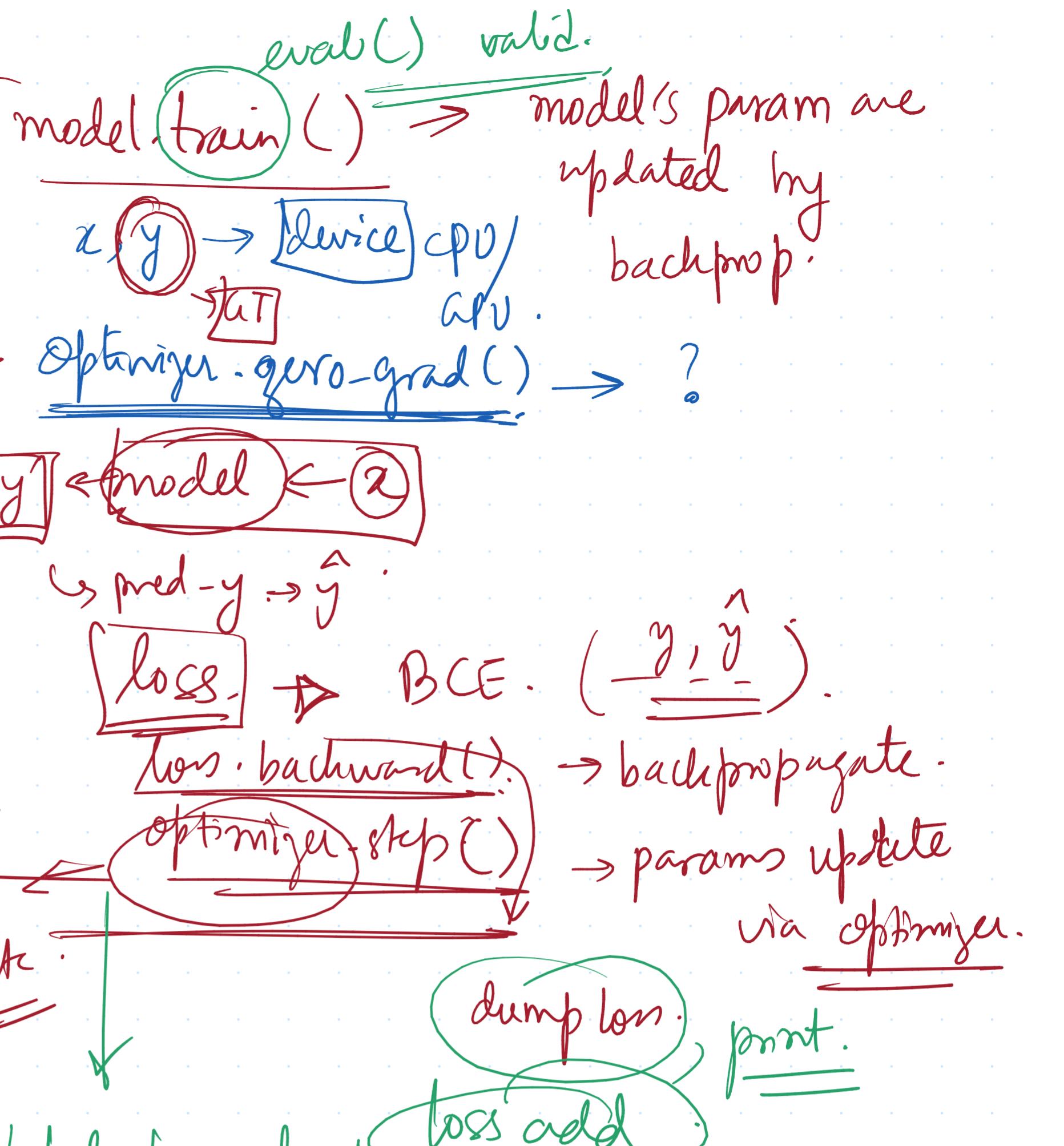
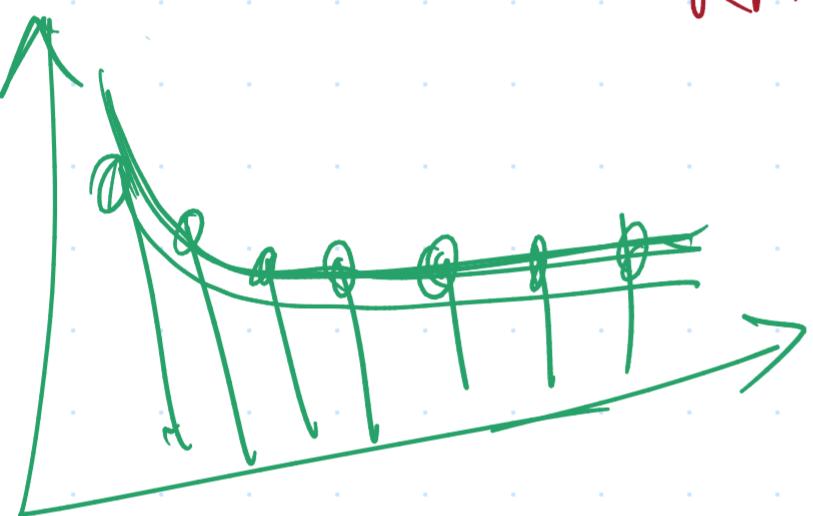
model:

gradient accumulate
mitigation

0/1

SGD / Adam

RMSprop etc.



redundant example
 $\# 1 > \# 0's$

Model.

$\rightarrow \perp$

If $\# 1 > \# 0's$
 print(1)
 else
 print(0)

general:

$A \xrightarrow{?} C$

Model is simulating a program which is a complex function by learning (weights & biases.) → approximate

Model \rightarrow functional Approximator .

