The complete learning algorithm

How does the algorithm look like now?

1. The algorithm
   a. **Initialise:** w, b randomly
   b. **Iterate over data**
      i. Compute $\hat{y}$
      ii. Compute L(w,b)
      iii. $w_{t+1} = w_t - \eta \Delta w_t$
      iv. $b_{t+1} = b_t + \eta \Delta b_t$
      v. Pytorch/Tensorflow have functions to compute $\frac{\delta l}{\delta w}$ and $\frac{\delta l}{\delta b}$
   c. **Till satisfied**
      i. Number of epochs is reached (ie 1000 passes/epochs)
      ii. Continue till Loss < ε (some defined value)
      iii. Continue till Loss(w,b)$_{t+1}$ ≈ Loss(w,b)$_t$