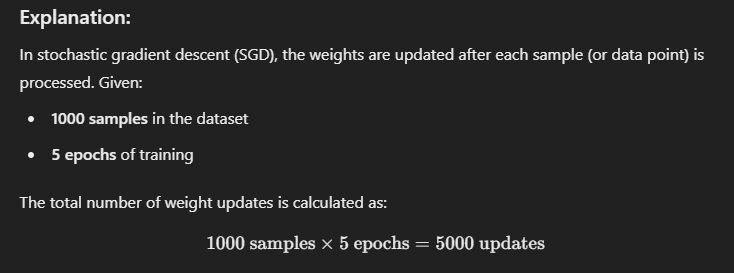
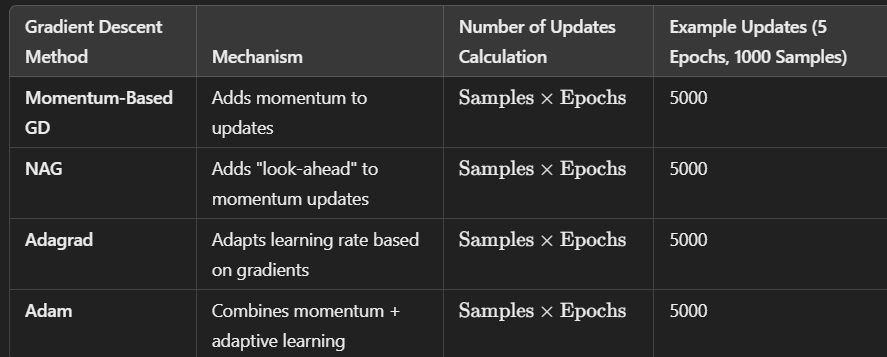
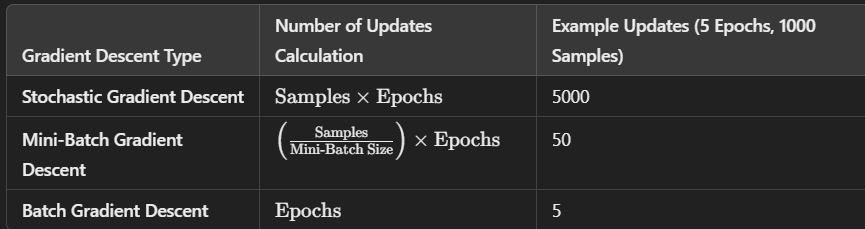
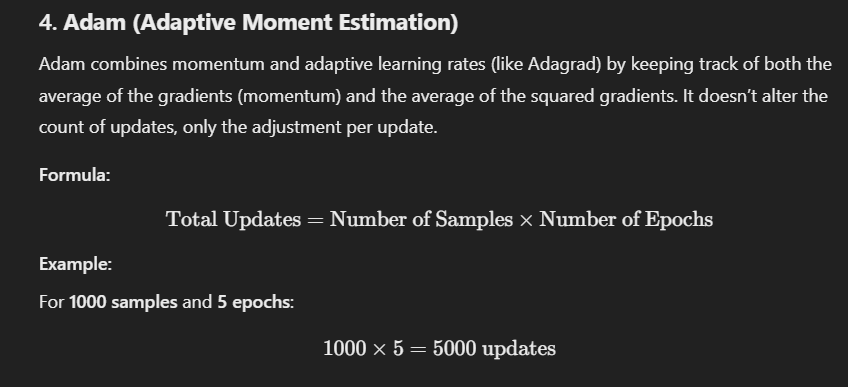
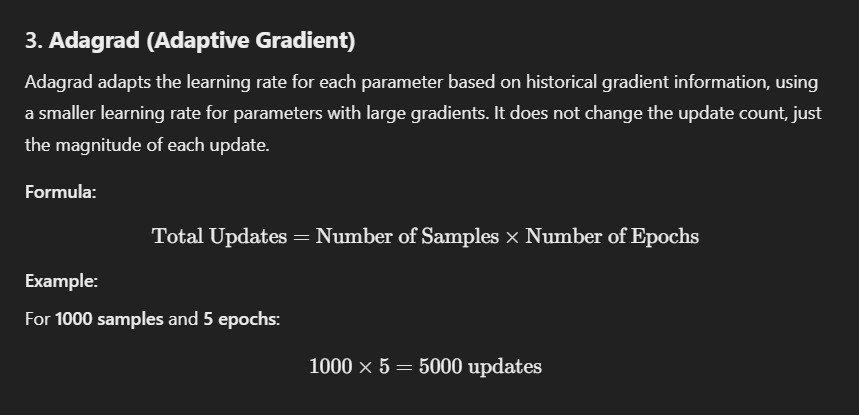
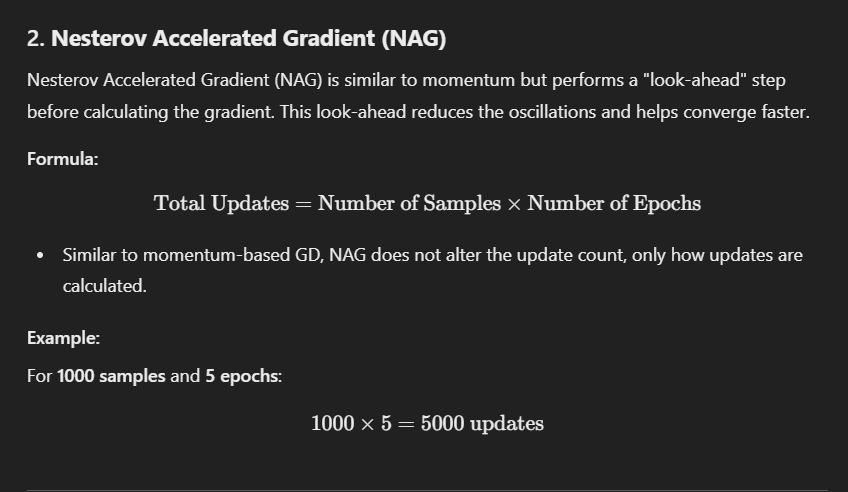
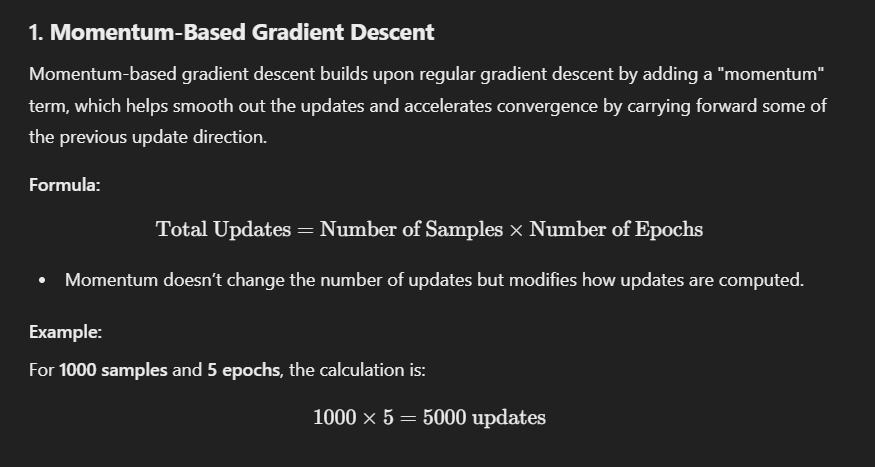
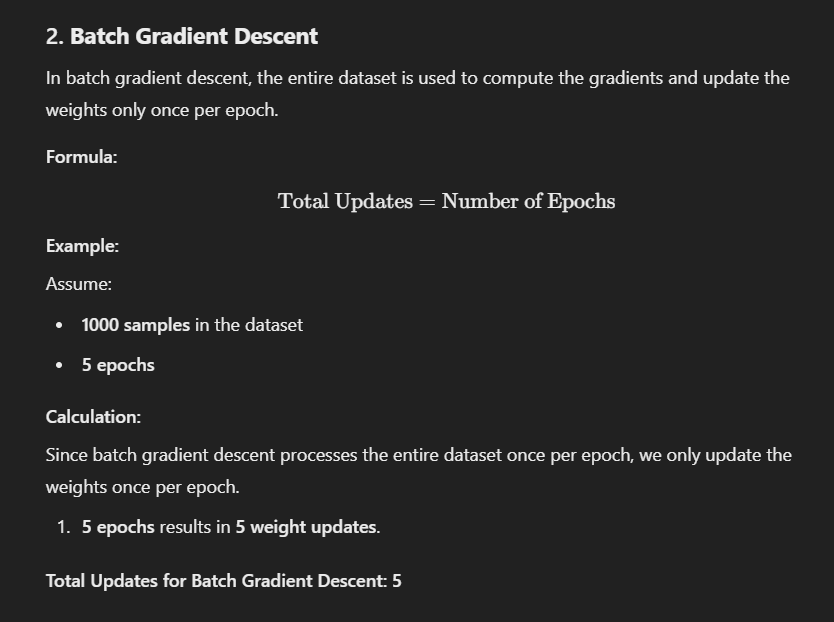
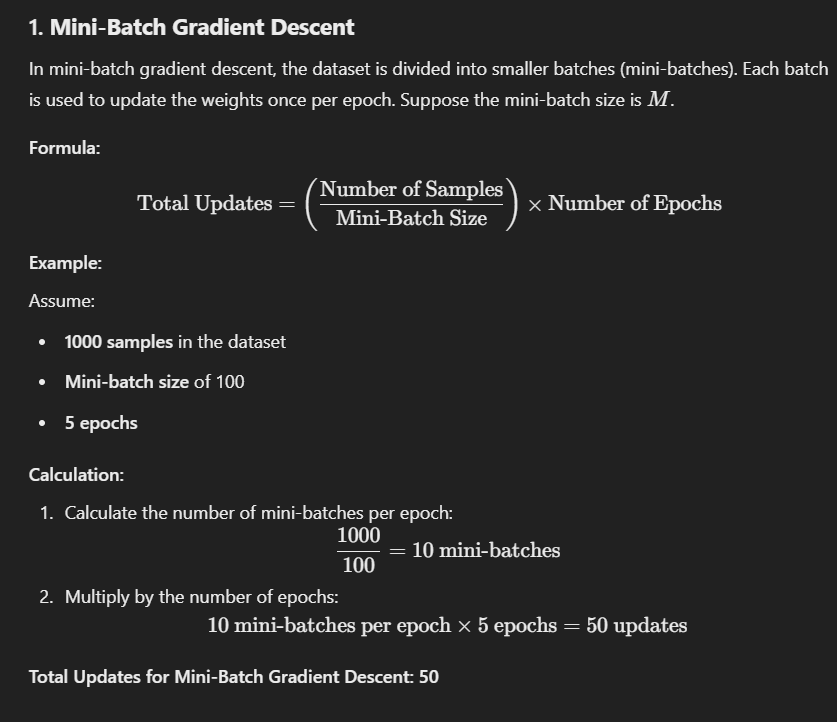
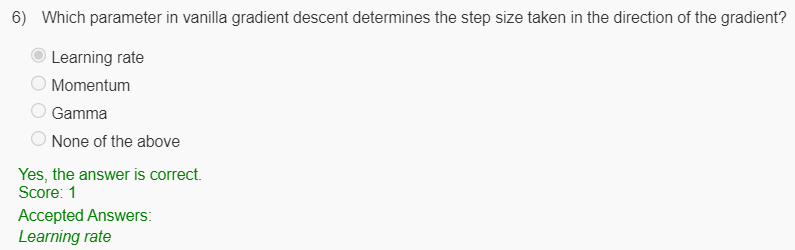
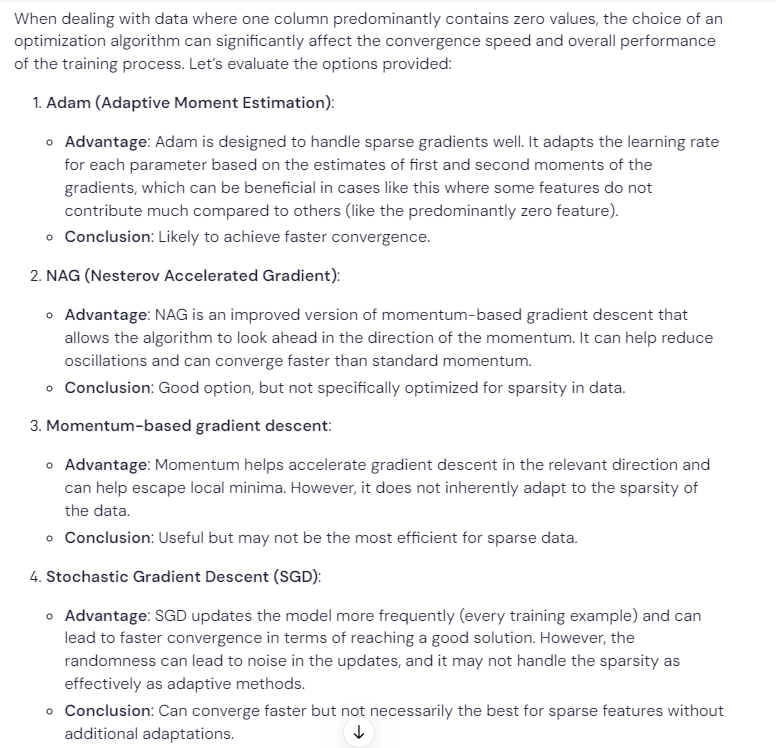
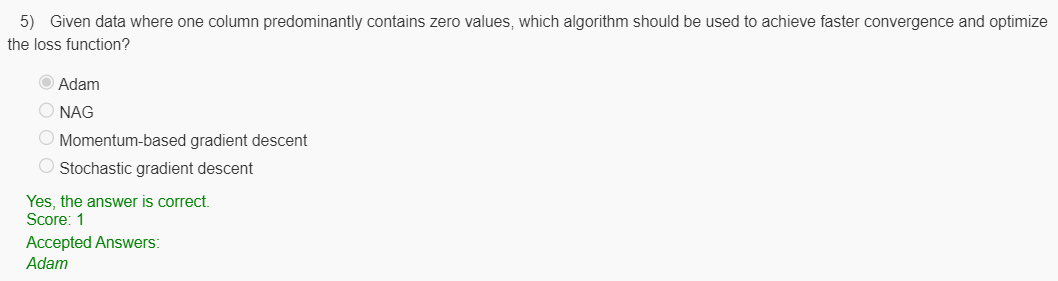
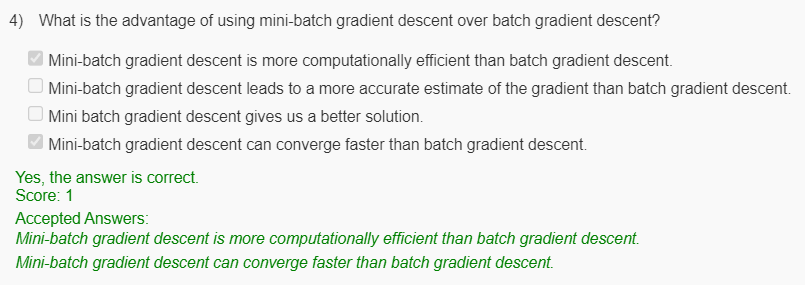
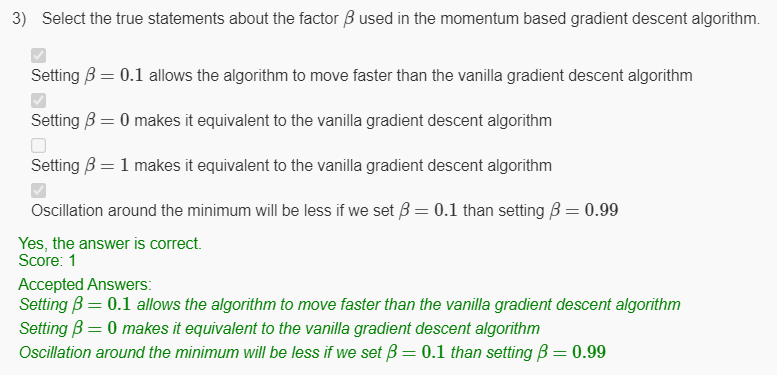
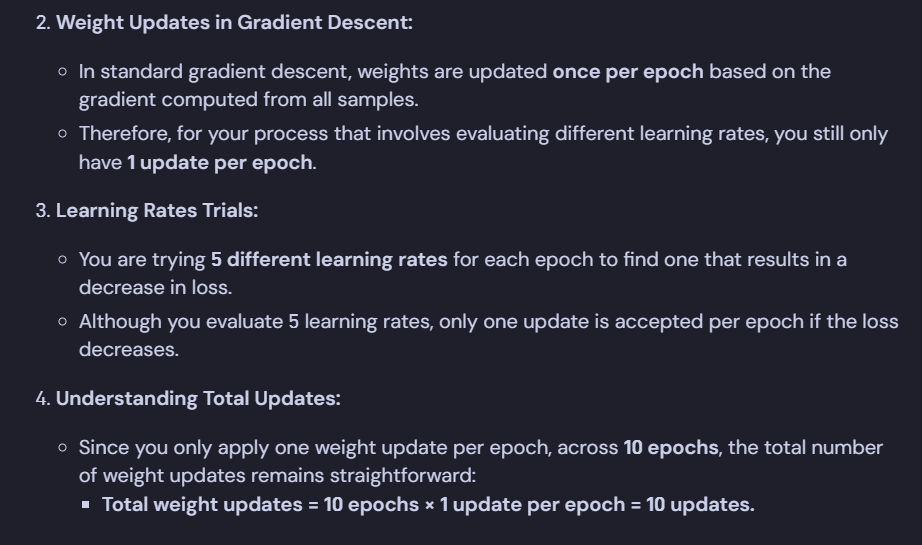
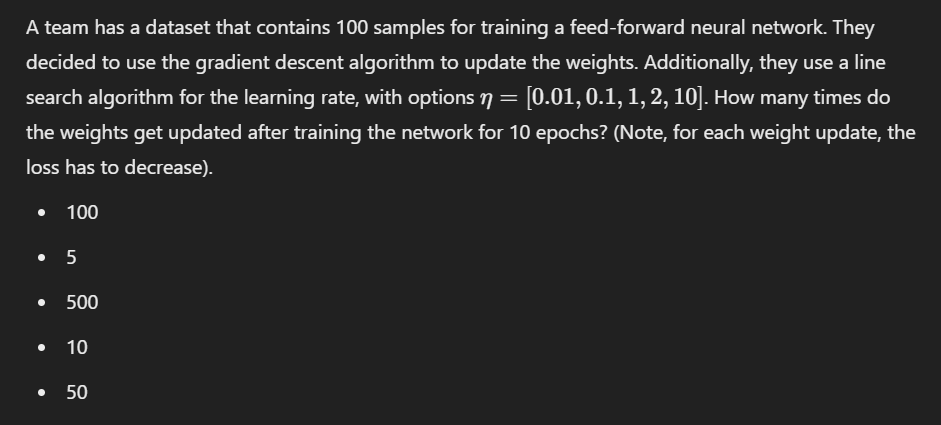
**Question:** A team has a dataset that contains 1000 samples for training a feed-forward neural network. Suppose they decided to use the stochastic gradient descent algorithm to update the weights. How many times do the weights get updated after training the network for 5 epochs?

* 1000
* 5000
* 100
* 5

**Answer:**  
5000****

The parameter in vanilla gradient descent that determines the step size taken in the direction of the gradient is the **Learning Rate**.

