Stochastic gradient decent is little different. gradient decent iterates over all Point's and for lage data that is very time consuming. In SGD, We shuffle the data; Pick Random K data of them and van The gradient steps. In SGD, we also have the learning rate A. the gradient step is similar to Q2-a (Fdn (0)). Proceduce SGD (Folm, O(0)) $\theta \leftarrow \theta(0)$ while not converged do for Shuff data {1,2, NY Pick K data Points Forke (1,2,... Ky do OK (OK + A Folm (Ok) return ox

fit."