PyTorch Week 1

Simple regression

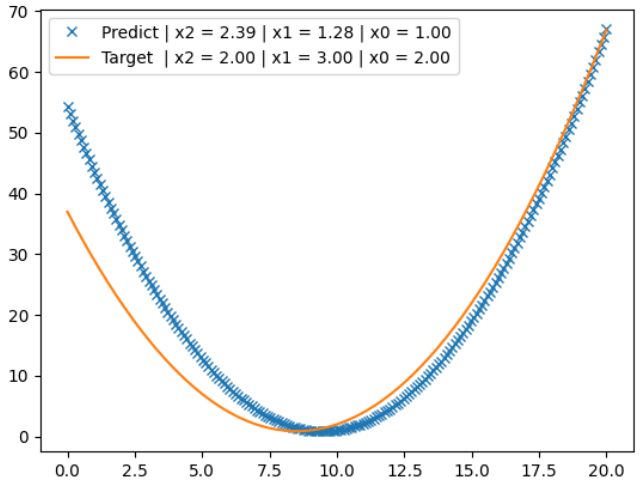
Request

1. Create the function $target = Ax^2 + Bx + C$ and $predict = A'x^2 + B'x + C'$.
2. Loss function $= MSELoss = 0.5 * (target - predict)^2$
3. Base on PyTorch API, let the *predict* close to *target (regression)*.

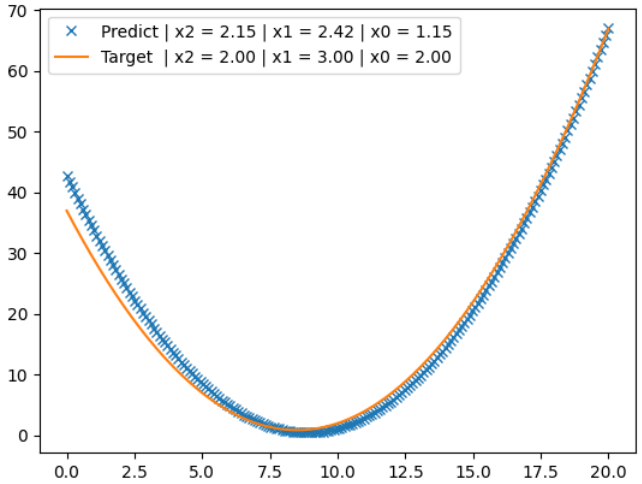
Hand on your python code before 8/1.

Result

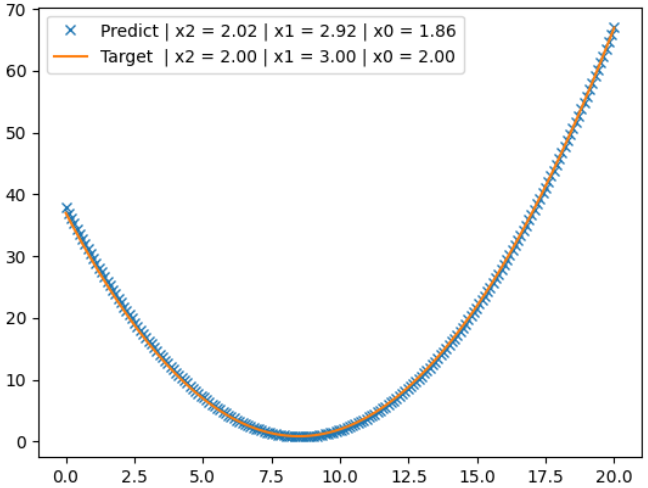
Regression 1 time



Regression 5 time



Regression 10 time



Some Hints

- Calculate derivatives : .backward()
- Variables need to record the cal. Process : requires_grad = True
- Don’t forget to clear the grad after updating the parameter values or before calculating the derivatives.

Reference : https://pytorch.org/tutorials/beginner/pytorch_with_examples.html