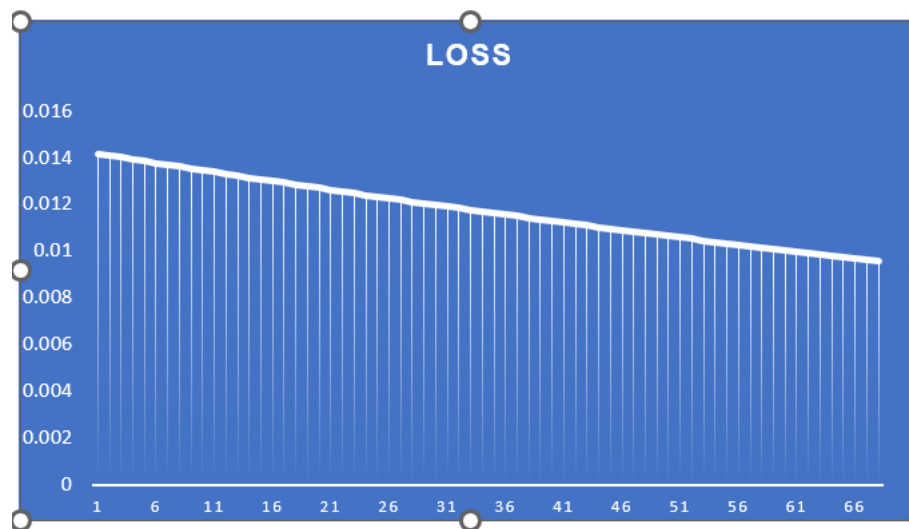


Assignment 6: Part 1

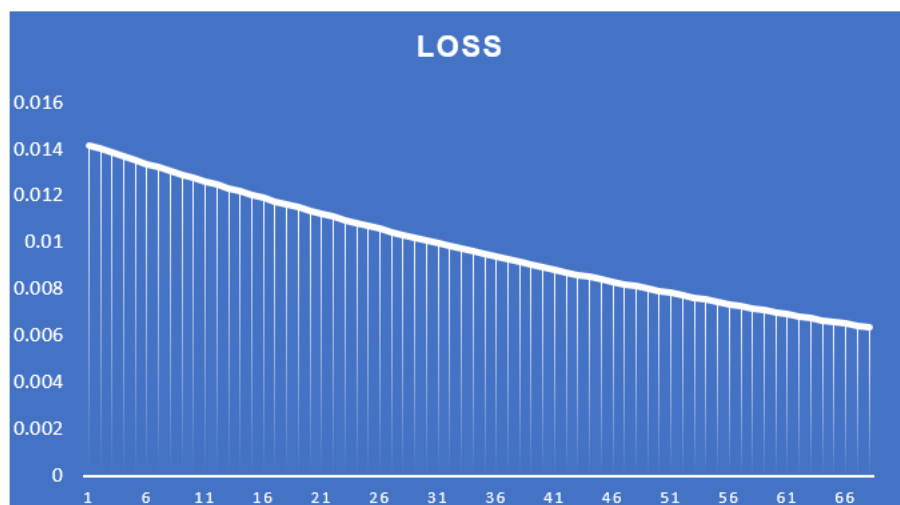
1). Learning Rate is 0.1

With learning rate 0.1, the loss decreased from 0.014 to 0.01 after 66 epochs



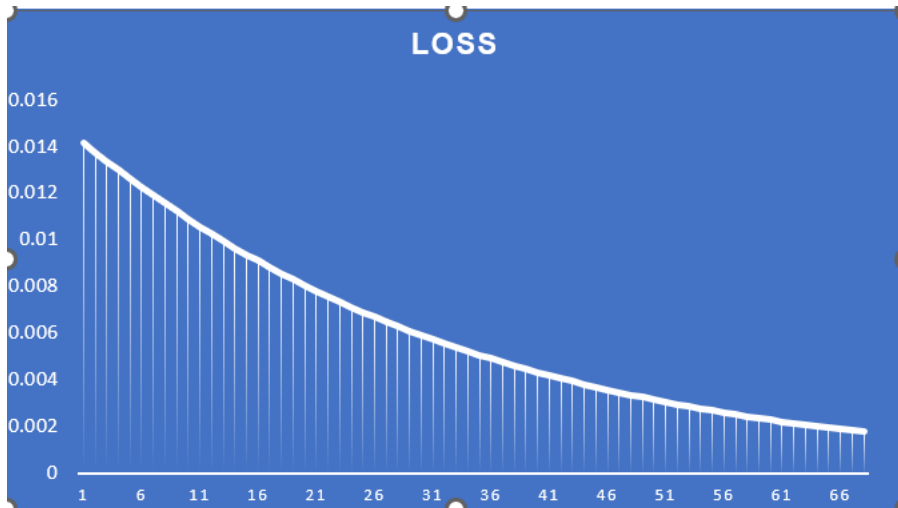
2). Learning Rate is 0.2

With learning rate 0.2, the loss decreased from 0.014 to about 0.06 after 66 epochs



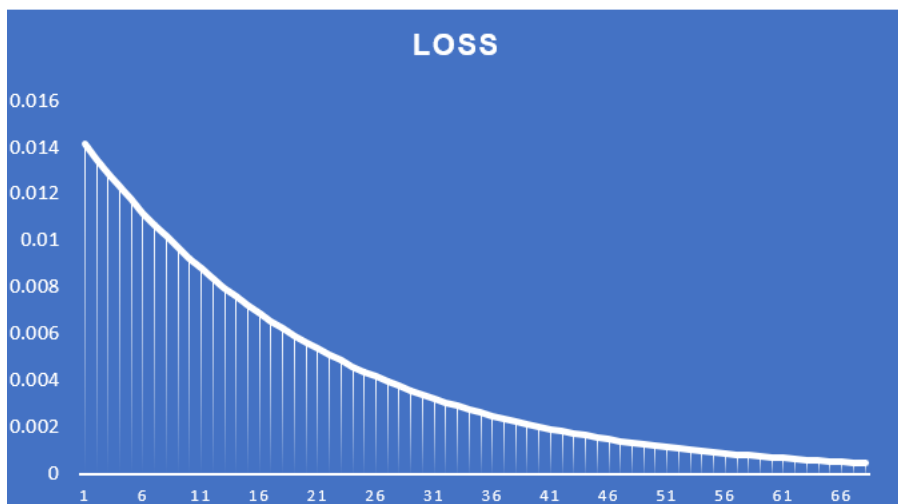
3). Learning Rate is 0.5

With learning rate 0.5, the loss decreased from 0.014 to about 0.02 after 66 epochs



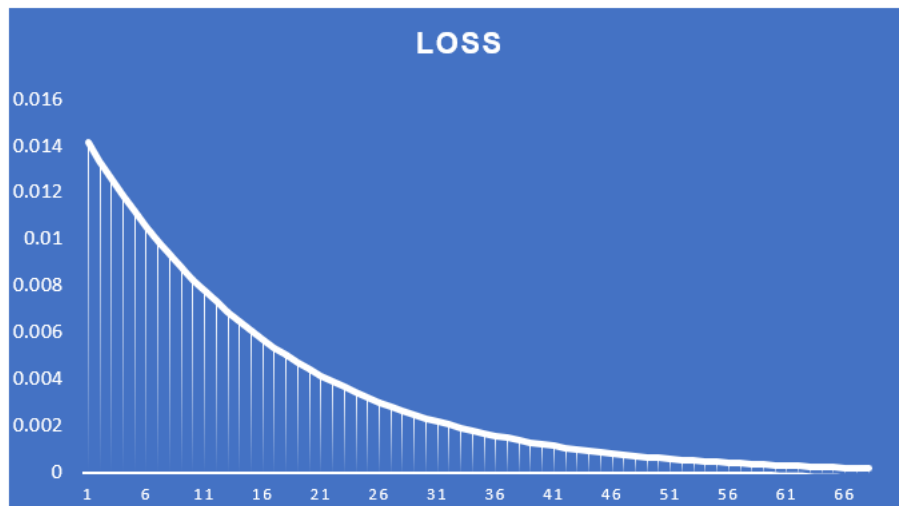
4). Learning Rate is 0.8

With learning rate 0.8, the loss decreased from 0.014 to less than 0.02 after 66 epochs



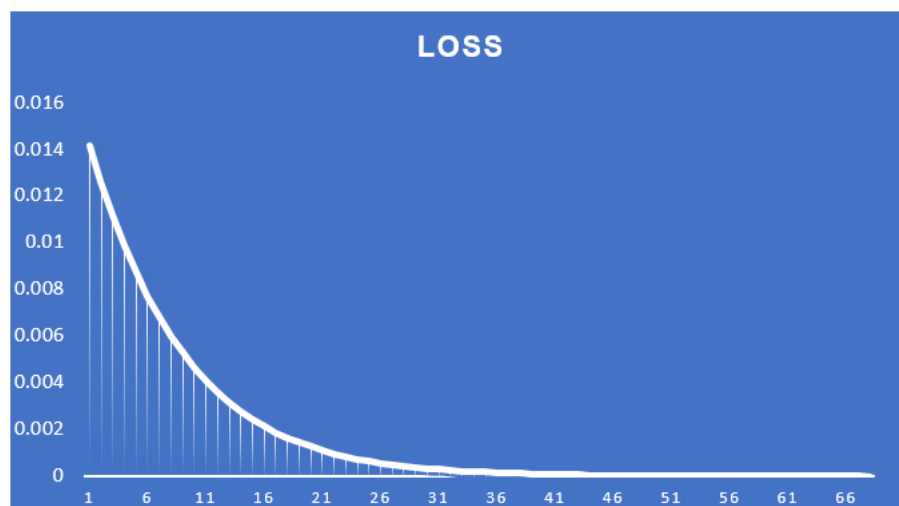
5). Learning Rate is 1.0

With learning rate 1.0, the loss decreased from 0.014 to less than 0.0 after 66 epochs



6). Learning Rate is 2.0

With learning rate 2.0, the loss decreased from 0.014 to 0.0 in less than 36 epochs



Summary:

As learning rate increases from 0.1 to 2.0, the loss decreases to 0 within 36 epochs.