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1. **Minimum Threshold at which there is no error.**

* The minimum threshold is **5** at which we get the desired output and the learning rate(α) is set to **0.01** during this training process.
* Now, I have changed the learning rate to **0.001**
* There is no change in the minimum threshold.
* Changed learning rate to **0.5**.
* Again there was a no change in the minimum threshold.

1. **Print weight and bais for all the epoch**

I have changed the range of for loop so that last epoch is printed.

for \_ in range(self.threshold + 1):

[Link for code and output](https://colab.research.google.com/drive/147ZcAoUJB88p92qO3Jl6VDOCbW8V7jJK?usp=sharing)

1. **What is the effect of change in the learning rate?**

As we have seen in que 1 there is no change when we change the learning rate.

I tried to change from 1, 2, 5 but there was no change. During this threshold was set to the minimum threshold.

[Link for Code and Output](https://colab.research.google.com/drive/1sTkM_XbMUXkJ-LI_U85ZovjAyWgL6DGf?usp=sharing)

1. **Take a 3 input and train for 6 input set and predict for rest 2.**

[Link for code and output](https://colab.research.google.com/drive/15LTZDet6BDwOw5i-tXEQXTws4VUF3Tk8?usp=sharing)

The minimum threshold at which we get the desired output is **16.**