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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.

2. Print weight and bias 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](#)

3. 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](#)

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

[Link for code and output](#)

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