**Conclusions for AND GATE**

**Epoch:**

* For 2bit inputs the minimum epoch for correct predictions is 5
* For 3bit inputs the minimum epoch for correct predictions is 4 (depends upon the order and type of inputs).
* If we set the epoch under the minimum requirement some of the predictions might result in false answers.

**Learning Rate:**

* On changing the learning rate, there is no effect on the minimum epoch required for the correct prediction.
* On changing the learning rate, the weight and the biases change by the factor of the learning rate.

**Initial Weight Bias:**

* On changing the initial bias and weights, the number of epochs for the correct prediction changes.
  + - * + **E.g.: For 2bit AND GATE**
        + On adding +2 to the initial weights the epoch comes to be 1112.
        + On adding +.2 to the initial weights the epoch comes to be 112.
        + And so on.
* The final weights also vary with respect to the initial weights.