

# Assignment 3

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# Transformer Results [5 points]

- Put your evaluation BLEU and Exact Match Accuracy here, both before and after hyperparameter tuning.
  - Before tuning: BLEU score = 35.83, Exact Match Accuracy = 50/100
  - After tuning: BLEU score = 100.00 , Exact Match Accuracy = 83/100
- Explain what you did here as well, you can use another slide if needed
  - I rose the learning rate (from  $5 \times 10^{-4}$  to  $1 \times 10^{-3}$ ) and the batch size (from 16 to 256). Since there is a limit to the number of iterations, this may have helped the model to learn better with a higher learning rate and a greater number of samples per batch. Moreover, with a larger batch size, the model is exposed to more diverse examples in each training step: this helps to generalize the model and to reduce the noise.