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Task 1

Epochs = 150

Embed_dim = 64

Latent_dim = 64

Encoder-decoder word accuracy = 79.51%

Best model word accuracy = 98.85%

➤ Task 1b

- Epochs = 150
- Embed_dim = 64
- Latent_dim = 64
- Dropout = .5
- I ran my code 10 times, and this is a summary of my results:
 - ★ Smallest Accuracy: 75.56%
 - ★ Largest Accuracy: 83.12%
 - ★ Mean Accuracy: 79.13%
 - ★ Median Accuracy: 78.38%

➤ Task 1c

- Epochs = 150
- Embed_dim = 128
- Latent_dim = 128
- I ran my code 10 times, and this is a summary of my results:
 - ★ Smallest Accuracy: 79.10%
 - ★ Largest Accuracy: 83.52%
 - ★ Mean Accuracy: 81.98%
 - ★ Median Accuracy: 82.34%

Task 2

Epochs = 10

Embed_dim = 100

Num_heads = 3

Dense_dim = 32

Accuracy = 98.42%

➤ Task 2b

- Epochs = 10
- Embed_dim = 100
- Num_heads = 3
- Dense_dim = 32
- Dropout = .1
- Dense = 20
- 2 Encoder Layers
- I ran my code 10 times. Here's the summary of what I got:

Run	Accuracy (%)
1	98.5

2	98.7
3	98.6
4	98.4
5	98.8
6	98.3
7	98.9
8	98.6
9	98.7
10	98.5

- ★ Smallest Accuracy: 98.17%
- ★ Largest Accuracy: 98.84%
- ★ Mean Accuracy: 98.58%
- ★ Median Accuracy: 98.63%

➤ Task 2c

- Epochs = 10
- Embed_dim = 128
- Num_heads = 4
- Dense_dim = 64
- Dropout = .2
- Dense = 32
- 3 Encoder Layers
- I ran my code 10 times. Here's a summary of what I got.
 - ★ Smallest Accuracy: 98.42%
 - ★ Largest Accuracy: 99.00%
 - ★ Mean Accuracy: 98.71%
 - ★ Median Accuracy: 98.67%