

1. With respect to Step 3, what prompt did you use?

```
"role": "system",
"content": "Answer concise from context,
    "1-5 words. Do not explain "
    "your reasoning. If ambiguous, provide the "
    "most common answer."
```

2. With respect to Step 4, what prompt did you use?

```
"role": "system",
"content": "Answer concise from context,
    "1-5 words. Do not explain "
    "your reasoning. If ambiguous, provide the "
    "most common answer."
```

3. With respect to Step 5, what is the total accuracy for GPT-5-nano? How does this compare to the result from Homework 2?

Accuracy: 422/500 (84.40%)

This compares to hw2 GPT-5-nano result which is 41%. This is an 43.40% Increase in performance due to that fact of RAG where we query 5 chunks. This Allows the model to analyze 5 context before answering the question, which will Dramatically increase the correctness of the answer.

4. With respect to Step 5, what is the total accuracy for qwen/qwen3-8b? How does this compare to the result from Homework 2?

Accuracy: 401/500 (80.20%)

This compares to hw2 qwen3-8b which has an accuracy of 33.20%. This is a 47% increase in performance. It is also due to the fact of RAG and the 5 query that allows the model to reference the context before answering the questions.