

Exercise

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Sequential chains with LCEL

With your prompt templates created, it's time to tie everything together, including the LLM, using chains and LCEL. An llm has already been defined for you that uses OpenAI's gpt-4o-mini model

For the final step of calling the chain, feel free to insert any activity you wish! If you're struggling for ideas, try inputting "play the harmonica".

Instructions

100 XP

- Create a sequential chain using LCEL that passes learning_prompt into the llm, and feeds the output into time_prompt for resending to the llm.
- Call the chain with the activity of your choice!

script.py

```
learning_prompt = PromptTemplate(
    input_variables=["activity"],
    template="I want to learn how to {activity}. Can you suggest how I
    can learn this step-by-step?"
)

time_prompt = PromptTemplate(
    input_variables=["learning_plan"],
    template="I only have one week. Can you create a concise plan to h
    elp me hit this goal: {learning_plan}."
)

# Complete the sequential chain with LCEL
seq_chain = ({ "learning_plan": learning_prompt | llm | StrOutputParser
() }
    | time_prompt
    | llm
    | StrOutputParser())
```

```
# Call the chain  
print(seq_chain.invoke({"activity": "lossing weight"}))
```