

LangChain, Pydantic, State Management & Streamlit – 50 MCQs (Code-Focused)

Q1. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic1}") prompt.invoke({})`

- A. Returns empty string
- B. **Raises KeyError due to missing variable**
- C. LLM fills default value
- D. Prompt executes successfully

Q2. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic2}") prompt.invoke({})`

- A. Returns empty string
- B. **Raises KeyError due to missing variable**
- C. LLM fills default value
- D. Prompt executes successfully

Q3. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic3}") prompt.invoke({})`

- A. Returns empty string
- B. **Raises KeyError due to missing variable**
- C. LLM fills default value
- D. Prompt executes successfully

Q4. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic4}") prompt.invoke({})`

- A. Returns empty string
- B. **Raises KeyError due to missing variable**
- C. LLM fills default value
- D. Prompt executes successfully

Q5. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic5}") prompt.invoke({})`

- A. Returns empty string
- B. **Raises KeyError due to missing variable**
- C. LLM fills default value
- D. Prompt executes successfully

Q6. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic6}") prompt.invoke({})`

- A. Returns empty string
- B. **Raises KeyError due to missing variable**
- C. LLM fills default value
- D. Prompt executes successfully

Q7. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic7}") prompt.invoke({})`

- A. Returns empty string
- B. **Raises KeyError due to missing variable**
- C. LLM fills default value
- D. Prompt executes successfully

Q8. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic8}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q9. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic9}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q10. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic10}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q11. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic11}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q12. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic12}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q13. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic13}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q14. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic14}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q15. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic15}") prompt.invoke({})`

- A. Returns empty string

- B. Raises KeyError due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q16. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic16}") prompt.invoke({})`

- A. Returns empty string
- B. Raises KeyError due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q17. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic17}") prompt.invoke({})`

- A. Returns empty string
- B. Raises KeyError due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q18. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic18}") prompt.invoke({})`

- A. Returns empty string
- B. Raises KeyError due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q19. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic19}") prompt.invoke({})`

- A. Returns empty string
- B. Raises KeyError due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q20. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic20}") prompt.invoke({})`

- A. Returns empty string
- B. Raises KeyError due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q21. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic21}") prompt.invoke({})`

- A. Returns empty string
- B. Raises KeyError due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q22. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic22}") prompt.invoke({})`

- A. Returns empty string
- B. Raises KeyError due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q23. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic23}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q24. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic24}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q25. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic25}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q26. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic26}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q27. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic27}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q28. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic28}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
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Q29. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic29}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q30. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic30}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable

- C. LLM fills default value
- D. Prompt executes successfully

Q31. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic31}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q32. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic32}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q33. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic33}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q34. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic34}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q35. What is the outcome or issue in the following code? `python prompt = ChatPromptTemplate.from_template("Explain {topic35}") prompt.invoke({})`

- A. Returns empty string
- B. Raises `KeyError` due to missing variable
- C. LLM fills default value
- D. Prompt executes successfully

Q36. What is the primary role of Pydantic in LangChain-based systems?

- A. UI rendering
- B. State persistence
- C. Structured data validation
- D. Prompt optimization

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