

main.py



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Output

Clear

```
1 # Knowledge Base (Rules in IF-THEN format)
2 knowledge_base = {
3     "flu": [{"cough", "fever"}],
4     "fever": [{"sore_throat"}],
5 }
6 facts = {"sore_throat", "cough"}
7 def backward_chaining(goal):
8     if goal in facts:
9         return True
10    if goal in knowledge_base:
11        for conditions in knowledge_base[goal]:
12            if all(backward_chaining(cond) for cond in conditions):
13                return True
14    return False
15 query = "flu"
16 if backward_chaining(query):
17     print(f"The patient is diagnosed with {query}.")
18 else:
19     print(f"The patient does NOT have {query}.")
```

The patient is diagnosed with flu.

Code Execution Successful

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