

AI record.py - C:/Users/DELL/AI record.py (3.11.9)

File Edit Format Run Options Window Help

```
knowledge_base = {
    "flu": [["cough", "fever"]],
    "fever": [["sore_throat"]],
}

facts = {"sore_throat", "cough"}

def backward_chaining(goal):
    if goal in facts:
        return True
    if goal in knowledge_base:
        for conditions in knowledge_base[goal]:
            if all(backward_chaining(cond) for cond in conditions):
                return True
    return False

query = "flu"
if backward_chaining(query):
    print(f"The patient is diagnosed with {query}.")
else:
    print(f"The patient does NOT have {query}.")
```

IDLE Shell 3.11.9

File Edit Shell Debug Options Window Help

Python 3.11.9 (tags/v3.11.9:de54cf5, Apr 22 2024, 10:12:12) [MSC v.1938 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

= RESTART: C:/Users/DELL/AI record.py  
The patient is diagnosed with flu.

>>>