

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

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```
knowledge_base = [
    ("cough", "fever", "flu"),
    ("sore_throat", "runny_nose", "cold"),
    ("sore_throat", "fever")
]

facts = {"cough", "sore_throat"}

def forward_chaining():
    inferred = True
    while inferred:
        inferred = False
        for conditions, conclusion in knowledge_base:
            if all(condition in facts for condition in conditions) and conclusion not in facts:
                facts.add(conclusion)
                inferred = True

forward_chaining()

if "flu" in facts:
    print("The patient is diagnosed with flu.")
elif "cold" in facts:
    print("The patient is diagnosed with cold.")
else:
    print("No conclusive diagnosis could be made.")
```

IDLE Shell 3.11.9

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```
Python 3.11.9 (tags/v3.11.9:de54cf5, Apr 2 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.
```

```
>>>
```