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# Simple Semantic Network - Basic Version

semantic_network = [
    ("Fido", "IS-A", "Dog"),
    ("Dog", "HAS", "Fur"),
    ("Dog", "CAN", "Bark"),
    ("Dog", "AKO", "Mammal"),
    ("Mammal", "HAS", "Warm Blood"),
    ("Mammal", "CAN", "Breathe Air"),
]

node = "Fido"
print(f"Properties of {node}:")

# Step 1: Find what Fido IS-A
for (subject, relation, target) in semantic_network:
    if subject == node:
        print(f" {node} {relation} {target}")

# Step 2: Find properties of Dog
parent = target
for (subject2, relation2, target2) in semantic_network:
    if subject2 == parent:
        print(f" {node} {relation2} {target2}")

# Step 3: Find properties of Mammal
grandparent = target2
for (subject3, relation3, target3) in semantic_network:
    if subject3 == grandparent and relation2 == "AKO":
        print(f" {node} {relation3} {target3}")
  
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for (subject, relation, target)... if subject == node

main x
C:\Users\Lenovo\PycharmProjects\pythonProject22\venv\Scripts\python.exe C:/Users/Lenovo/PycharmProjects/pythonProject22/main.py
Properties of Fido:
  Fido IS-A Dog
  Fido HAS Fur
  Fido CAN Bark
  Fido AKO Mammal
  Fido HAS Warm Blood
  Fido CAN Breathe Air

Process finished with exit code 0
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