```
def forward_chaining(facts, rules, goal):
  inferred = set(facts)
  applied = True


  while applied:
     applied = False
     for rule in rules:
        head = rule[0]
        body = rule[1:]


        if head not in inferred and all(premise in inferred for premise in body):
           inferred.add(head)
           applied = True


  return goal in inferred


# ---------------------------------
# Define the knowledge base (rules)
# Format: [conclusion, premise1, premise2, ...]
rules = [
  ['c', 'a', 'b'],
  ['d', 'b'],
  ['f', 'c', 'd']
]


# Initial facts
facts = ['a', 'b']
```

```
# ---------------------------------
# Test goals
goals = ['f', 'e', 'd']


for goal in goals:
  if forward_chaining(facts.copy(), rules, goal):
      print(f"The goal '{goal}' can be achieved.")
  else:
      print(f"The goal '{goal}' cannot be achieved."
```