```
facts = {'a': True, 'b': True, 'c': False}
 3
     rules = [('d', ['a', 'b']), ('e', ['b', 'c']), ('f', ['d', 'e'])]
 4
 5
     def forward_chaining(facts, rules, goal):
 6
       inferred = {k for k, v in facts.items() if v}
 7
       while True:
          new = {h for h, b in rules if h not in inferred
 8
     and all(f in inferred for f in b)}
          if not new: break
 9
          inferred |= new
10
       return goal in inferred
11
12
13
     for g in ['d', 'e', 'f']:
       print(f"{g}: {'Achieved' if forward_chaining(facts,
14
      rules, g) else 'Not achieved'}")
```

d: Achieved e: Not achieved f: Not achieved

[Program finished]