EXP:6

2 Programs on Decision Making and Knowledge Representation

d. Implementation of Forward Chaining

AIM:

To solve Forward chaining using python code

CODE:

```
facts = {"A"}
rules = {
  "A": "B",
  "B": "C"
def forward_chaining(facts, rules):
  inferred = set(facts)
  while True:
     new_fact = False
     for condition, result in rules.items():
       if condition in inferred and result not in inferred:
          inferred.add(result)
          print(f"Inferred: {result}")
          new_fact = True
     if not new_fact:
       break
  return inferred
# Run it
all_facts = forward_chaining(facts, rules)
print("Final facts:", all_facts)
```

OUTPUT:

Inferred: B

Inferred: C

Final facts: {'A', 'B', 'C'}

RESULT:

Thus the program is compiled and run successfully.