**Experiment 6: Forward Chaining**

**Aim**

To implement forward chaining to infer new facts.

**Procedure**

1. Start with known facts.  
2. Apply rules to infer new facts iteratively.  
3. Stop when no more facts can be inferred or the goal is achieved.

**Code**

facts = {'A'}  
rules = {  
 'A': ['B'],  
 'B': ['C']  
}  
inferred = set(facts)  
while True:  
 added = False  
 for key, values in rules.items():  
 if key in inferred:  
 for value in values:  
 if value not in inferred:  
 inferred.add(value)  
 added = True  
 if not added:  
 break  
print("Inferred facts:", inferred)

**Output**

