```
Forward-Chaining
Aim:
     Forward Chaining implementation.
facts = set()
rules = [
    ("It is raining", "The ground is wet"),
   ("The ground is wet", "The grass is slippery")
]
def forward_chaining(facts, rules):
   inferred = True
   while inferred:
       inferred = False
       for premise, conclusion in rules:
            if premise in facts and conclusion not in facts:
                print(f"Inferring: {conclusion}")
                facts.add(conclusion)
                inferred = True
facts.add("It is raining")
forward_chaining(facts, rules)
```

```
print("\nInferred facts:", facts)
```

Result:

Inferring: The ground is wet

Inferring: The grass is slippery

Inferred facts: {'The grass is slippery', 'The ground is wet', 'It is raining'}