

## EXP : 5

### 2 Programs on Decision Making and Knowledge Representation

#### C. Implementation of Backward Chaining

##### AIM:

To solve Backward chaining using python code

##### CODE:

```
facts = {"A"}
rules = {
    "A": "B",
    "B": "C"
}

def backward_chaining(goal, facts, rules):
    if goal in facts:
        return True
    for condition, result in rules.items():
        if result == goal:
            if backward_chaining(condition, facts, rules):
                return True
    return False

# Test it
goal = "C"
result = backward_chaining(goal, facts, rules)
print(f'Can we derive '{goal}'? {'Yes' if result else 'No'})
```

## **OUTPUT:**

Can we derive 'C'? Yes

## **RESULT:**

Thus the program is compiled and run successfully.