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EXP.NO: 5

EXP.NAME: PROLOG MINIMAX ALGORITHM

```
[2] from pyswip import Prolog

prolog = Prolog()

# Facts
prolog.assertz("likes(mary, food)")
prolog.assertz("likes(mary, wine)")
prolog.assertz("likes(john, wine)")
prolog.assertz("likes(john, mary)")

# Rules
prolog.assertz("likes(john, X) :- likes(mary, X)")
prolog.assertz("likes(john, Y) :- likes(Y, wine)")
prolog.assertz("likes(john, Y) :- likes(Y, Y)")

print("✅ Prolog facts and rules loaded.")
```

✅ Prolog facts and rules loaded.

```
def query_likes(query):
    res = list(prolog.query(query))
    return res

# Query 1 and 3 (same check): Does John like food?
print("1 & 3) Does John like food?", "Yes" if query_likes("likes(john, food)") else "No")

# Query 2: Does John like wine?
print("2) Does John like wine?", "Yes" if query_likes("likes(john, wine)") else "No")

# Query 4: Who does John like?
print("4) Who does John like?")
results = query_likes("likes(john, Y)")
print(", ".join(sorted({r['Y'] for r in results})))
```

```
*** 1 & 3) Does John like food? Yes
     2) Does John like wine? Yes
     4) Who does John like?
```

