EXPERIMENT 37

Prolog program for implementing backward chaining method

|  |
| --- |
| % Define facts |
|  | fact(a). |
|  | fact(b). |
|  | fact(c). |
|  |  |
|  | % Define rules |
|  | rule(x, [a, b]). |
|  | rule(y, [b, c]). |
|  | rule(z, [x, y]). |
|  |  |
|  | % Define backward chaining predicate |
|  | backward\_chaining(Goal) :- |
|  | fact(Goal). |
|  |  |
|  | backward\_chaining(Goal) :- |
|  | rule(Goal, Premises), |
|  | check\_premises(Premises). |
|  |  |
|  | check\_premises([Premise|Tail]) :- |
|  | backward\_chaining(Premise), |
|  | check\_premises(Tail). |
|  |  |
|  | check\_premises([]). |