

Objective 1	Write a program in PROLOG to implement simple facts and rules and perform various types of queries on them.
Theory	PROLOG (Programming Logic) is a high-level programming language primarily used in artificial intelligence (AI) and computational linguistics.
	PROLOG programs consist of three main components: facts, rules, and queries.
Algorithm/ Sequential Steps	<ol style="list-style-type: none"> 1. Download SWI-PROLOG from https://www.swi-prolog.org/ 2. Install SWI-PROLOG 3. Run SWI-PROLOG 4. Go to File menu and select New. 5. Give File a name like 'prashant.pl' 6. Write facts and rules in the script window 7. Go to Compile menu and select Compile buffer. 8. A message of successful compilation shows in the taskbar. 9. Execute the required queries.
Script	<pre> male(john). parent(john,peter). parent(john,elizabeth). father(P,Q) :- male(P), parent(P,Q). </pre>
Queries and Results	<p>?- parent(X,Y)</p> <pre> X = john. Y = peter ; X = john, Y = elizabeth. </pre> <p>?- father(john,peter).</p> <pre> true. </pre> <p>?- father(WHO,WHOM).</p> <pre> WHO = john, WHOM = peter ; WHO = john, WHOM = elizabeth. </pre>
Viva Voce	<ol style="list-style-type: none"> 1. What is PROLOG 2. What are various types of Knowledge Representation techniques in PROLOG. 3. What is Predicate Logic.
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