

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	<div>FACTS</div> <div>RULE</div>	<pre>male(john) . parent(john,peter) . parent(john,elizabeth) . father(P,Q) :- male(P), parent(P,Q) .</pre>
Queries and Results	<pre>?- parent(X,Y) X = john, Y = peter ; X = john, Y = elizabeth.</pre> <div>QUERY</div>	
	<pre>?- father(john,peter). true.</pre>	
	<pre>?- father(WHO,WHOM) . 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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