

**Title:** Family tree in PROLOG using condition-action rules based agent

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Bat	tch: Roll No.:	Experiment No.: 5
	m: Write a program for imple	ementation of family tree in PROLOG using condition-
Res	sources needed: Internet	
Th	eory	
percept	ts sequence to a possible action at that affects eventual actions:	d mathematically as an agent function which maps every possible the agent can perform or to a coefficient, feedback element, function or
necessa Create	oproach follows a table for look ary to interact in an environment a family tree program to includ M is the mother of P, if she is a F is Father of P, if he is parent X is Sibling of Y, if they have Then add rules for sister, broth generations of your own family	de following rules — a parent of P and is female of P and is male same parent er, grandfather, grandmother, uncle, aunty, cousins etc (consider 3
	ates used in Program:	wer questions related to running tree.
	father(person,person)	
П	male(person)	
	child(person,person)	
	female(person)	
	mother(person,person)	

 $\square$  spouse(person,person)

 $\Box$  brother(person,person)

	grandparent(person,person)	
	uncle(person,person)	
	aunt(person,person)	
□ cousin(person,person)		
Questi	ons:	
1. The	e PROLOG suit is based on	
a. Inte	erpreter	
b. Co	mpiler	
c. No	ne of the above	
d. Bo	th	
2. Stat	te true of false	
There i	nust be at least one fact pertaining to each predicate written in the PROLOG program.	
3. Stat	te true of false	
ín PRC	LOG program the variable declaration is a compulsory part.	
4. Dif	ferentiate between a fact and a predicate with syntax.	
5. Dif	ferentiate between knowledge base and Rule base approach.	
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Res	ults: (Softcopy submission of Summary Document)	
Ou	itcomes:	
Co	nclusion:	
	ade: AA / AB / BB / BC / CC / CD/DD RANGE OF ENGG.  Construction of faculty in-charge with date	

**References:** 

- Stuart Russell and Peter Norvig, Artificial Intelligence: A Modern Approach, Second Edition, Pearson Publication
- Elaine Rich, Kevin Knight, Artificial Intelligence, Tata McGraw Hill, 1999.