	Prolog Programming Assignments	
 <u></u>	How does the queries in lebel file are executed?	
	code: loves (Vincent, mia).	
	loves (marcellus, mig).	
	loves (pumplein, honey-bunny).	
	loves (honey-bunny, pumplein).	
	jeglous (X,Y):	
2	loves (x,z),	
	loves (Y,Z)	
	And the second second	
	Query 1: ? - loves (x, mia).	
	Output: X = Vincent	
	x = Marcellus	
	Explanation: Here as we know vincent loves Mia as well	
	as Marcellus loves Mig. Thus the Kb assumes	
	that x is either vincent or Marcellus	
-		
0	Oueryz: ?-jeglous (X,Y)	
,	output x = Y, x = Vincent	
	x = Vincent	
	Y = Marcellus	
-,	x = Marcellus	
	x = Y, Y = Marcellys	
	X = Y, Y = pumpkin	
	X = Y, Y = Honey - bynny.	
is man	Explanation: As there is no fixed parameters in our	
12: I	query, the query will produce output of	

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	every jeglous (X, Y) pair on our prolog code.	
3 1	The jealous () rule follows	
	jeglous (x, Y): loves (x,z), loves (Y,z).	
	Initially, x and Y both were associated to vincent,	
	i.e. self association. It then follows reflexive	
	property for the rest of the prolog code.	
	Lasterman, promote and I sound	
2	How does the querics in lists pl gre executed?	
	(x) sand	
\rightarrow	Code: Suffix (xs. Ys):	
	append (-, Ys, xs).	
	· fe or Yours of the Younger	
	Prefix (xs, ys):	
	append (Ys, -, Xs).	
1 - ,	And a training to the second of the second o	
(187)	Sublist (xs, Ys):-	
	Suffix (xs, zs),	
	Prefix (zs, ys).	
	The second of th	
	Men ([], []).	
79	nrev ([HIT], L):	
	A rev (T,T).	
	append (T, [H], L)	
	Overy 1: ? - Sublist ([a,b,c,d,e], [c,d].	
	Output: True.	
	_	
4 1 1	Explanation: A sublist procedure looks for a match -	
	between the first elements of the sublist	

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of the main-list [a,b,c,d,e]. As the main list
contains the sublist [c,d], the output is true.
Else, the output would have been false.

Query 2: 9- Suffix ([a,b,c], Zs)

Dutput: 25 = [a,b,c] To Zs = [bic]

 $z_s = [c]$

zs = []

Explanation: Suffix in general eliminates the front element from a list. Here, by using suffix procedure, continues until all the elements are removed. As there are no more elements in the list, The output will be displayed as 'False'.

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(3)

(0-3) Programming create a Prolog code to find factorial of a number?

Code: factorial (0,1) factorial (N.F):-N > 0,

M, is M-1,

factorial (N, Fi),

N is N*FI.

	Page:
	Overy: ? - factorial (3, w).
	Output; W=6
Q-4J	In examples data set movies pl write query strings and results of query execution for any of 5 tasks:
م	In which year was the movie American Beauty released?
	Query: ?- movie (american-beauty, Y).
	Output. Y = 1999
ا حيا د د	the state of the s
Ы	Find the movies released in year 2000.
V 47 11 1	The The plants of the 100 to 100 to 100 to
1 30 4	Query: ?- movie (M, 2000).
	Output: M= down-from_the_mountain.
	M = 0- brother - where - art - thou
	M = ghost-world
7	Find and wise and later and
5	Find movies released before 2000
	Overy: ? - movie (M, Y), Y< 2000
	Output: M= american - beauty
	Y = 1999
	9 13 1 1 3 P 1 4 2
	M = 9nna
	$\times = 1987$
- 11	

	Page:
	m = borton-fink
	x = 1991
<u>a</u>]	Find the movies released after 1990.
	Query: ?- movie (M, Y), Y> 1990.
	Output: M = american - beauty
	Y = 1999
	M = barton-fink
	Y = 1991
<u> </u>	Find a director of a movie in which scallett Johansson
- 1	appeared.
*	
<u> </u>	Output: D = peter_webber,
	M = girl_with_a, pearl_ earing.
6	17 - greez writzer pearle carring.
Q·5]	Draw a family tree of youl any arbitrary family.
4.2	which has the following relations mother, father,
	daughter, son, grandson, grandmother, sibling,
	uncle, person, male, female. You need to convert
	Ouery results on your ICB.
	whice desired and desired to
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