	Prolog Programming Assignment
7	How does the gueries in kb.pl file are executed?
7	code: loves (vincent, mia). loves (mar(ellus, mia). loves (pumpkin, honey - bunny). loves (honey -bunny, pumpkin).
C	jealous (x, y):- 1 oves (x, z); 1 oves (y, z).
	query: ?- loves (x, mia). Output: x = vincent *
<u>C</u>	query 2: ?- jealous (x,y) . Query 2: $x = y, x = vincent$ $x = vincent$ $y = marcellus$ $x = marcellus$ $x = x, y = marcellus$
	$\chi = \gamma, \gamma = pompkin$ $\chi = \gamma, \gamma = honey - bonny$.
	Explanation: As there is no fixed parameters in our query.

	pomperson exercise of polecy
	The grery will produce output of purry jealous (x, x) pair on our prolog code. The jealous ()' rule follows. jealous (x, x): loves (x, z), loves (1, z). tritially, x and y both use were associated to vincent, i.e, self-association. It then follows replexive property for the rest of the prolog code.
	- Contraction
27	thou does the queries in lists. pl fixe one executed?
7	code: suffix (xs, 1s):-
	append (-, 45, 45).
	MATTER VIEW VIEW VIEW VIEW VIEW VIEW VIEW VIEW
	prefix (xs, ys):-
Se Maria	append (YS, -, XS).
Samuel .	as all soul come sand consecutions
31	sublist (xs, xs):
	SUFAIX (45, 75),
	prefix (25, 75).
	Introduce CV- 30 Soome 1
	nrev ([], []).
	naer ([HITO], L):
	nrev (TO, T)
	append (T, EHJ, L).
	Ordered Black
	query 1: 2.? - sublist ([a,b,c,d,e], [c,d]).
	output: True

	Explanation: 1A this query, A sublist procedure 100ks for a
	match between the first elements of the sub-list will live
	main-list us. Here, [c] d] is the 306-list of the main 1151
	rab c.d.e]. As the main list contains the sublist [c, as,
	the output is true. Else, the output would have been
	Palse.
	query 2: ?- suffige [Cap, cJ, Zs)
(
	Output: Zs = [a,b,c]
	rs = [b,c]
Jan	TS = CcT w 19 30 100m 123 010h 30 10ma 3 13 13 13
	Zs= EJ na maitura a mare la citata
	false
" Po	Explanation: suffix in general elem eliminates the front
	elements from a list. Here, by using suffix
	procedure, cab cJ elements are removed from
-	a and continues until all the elements are
	removed. As of the As there are no more elements
	in the list, the output will be displayed as
	Palse! In palate moon all bill (d
	-(0000 M)0100m - 8 = 1000)
03.	Programming create a Prolog code to find factorial of a
	number?
-	(ode: factorial (0,1).
->	(ode: factorial (0,1): factorial (N,F):-
	tacrona, c. p. r

	N70, N70,
0.4	Nr Is N-1
(30.35)	factorial (N, F),
ten	NISNA EI.
636	
	query: ?- factorial (3, w).
	Output: w=6.
	Explanation: Local and tegrand
φ4,	In examples data set movies.pl write query strings and mesults of query execution for any of 5 tasks:
a)	In which year was the movie American Beauty released?
6000 1	query: ?- movie l'american_beauty, v).
Angular I	Ochout and 1000
a house!	Output : 1 = 1999.
b)	Find the movies released in year 2000.
	Query: ?- movie (M, 2000).
0 10	output: M= down-from-the_mountain
	ta = 0 - brother _ where _ art _ thou
	M = ghost-world
	(1,0) (onotion 1 to 16)
	(1,04) lone to c

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VOCEKOCEKGCE	Carjat - Raigad Region - Raigad Region - Raigad Region - Raigad Region - Raigad	CERCOE
GOERGOERGOE		
	o) Find movies vieleased before 2000.	
	query: ? - movie (19,7), 4<2000.	
	output: m = american-beauty	
	Y = 1999	
	Meanna	
	M=0009 X=1987	
7		
	ka = barton - fink	
	X = 1991	
	0.00 1000000000000000000000000000000000	
	d) Find the movies released after 1990.	
	2 12(4/1) 1, 1202	
	query: ?- movie (M, Y) Yy 1990,	
•	output: m= amentan-beauty	
	7 = 1999	
	M= barton_fink	
	Y= 1991.	
	e) Find a director of a movie in which scalet Johansson	
	appe arred.	
	Query: ?- actress (M; scarleH-johansson,)-), director(100,0
	output: 0 = peter - webber,	
	M= girl - with _a - pearl _ earring.	T. C.
	The state of the s	

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0.0	
<u>Q5.</u>	brown a family tree of you any arbitrary family. which
	has the following relations mother, father, daughter,
	son, grandson, grandmother, sibling, unde person
	mole, female. You need to convert it into KB and
	write atleast 6 queries and query results on your
	K6.
->	they Olagram:
	Jack Helen Quiver sophiee
	1 6 6 6 6 6 6
	Ali] Jess [Lily James]
	[Simon] Harry
	Family Tree
	query 1: ?-mother_of (x,jess).
	output: X = helen
	query 2: ? parent of (x, simon).
	Output: X = jess

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	query 3: ? - sister-of (x, lily).
	output: $x = je88$
	Query 4: ? - parent- of (x, harry).
	output: X = lily
	X=james
	query 5: ?- aunt-of (x, simon).
	output: X= lily
	query 6: ? grandfather_of (x, harry).
	output: X=jack
	186
	7/ 9/1
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