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	The state of the s	GCERGCERGCERGCE
	Prolog Programming Assignment	
	1. How does the query in kb.pl file of	re
	Code: 10 knowledge basès	
	loves (vincent, mia)	
0	lovers (marcellus, mia)	
	lovers (pumpkin, honey -bunny)	
	lovers (honey bunny pumptin).	
	jealous (x,y):-	
	lovers (x,2),	
	lovers (Y,Z).	
	Query : lovers (x, mia)	
	O/P: X = Vincent	
5	× = marcellus	
	Explanation: Here as we know vincen-	t lovers
	mia aswell as marcellus love	en mia
	Thus the Kb assumes that	x is either
	Vincent or marcallys	
	guery 2: 2 - jealous (x,y)	
	$\times = Y, \times = viocent$	
	× = Vincent	
	Y= Morcellus	

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	× = Marcellus
	X=Y, Y= Marcellus
	x=Y, Y=Pumpkin
	x= Y, Y=Honey-bunny
	Explanation:
	As there is no fixed parameter
	in our query. The query will produce
2	output of every jealous (x, x) pair on our
	prolog code. The jealous () rule
	FOILOWS: STREET A MEDITAL
	jelous (x,y): lovers (x,z), lover (x,z)
	Initially, x, & y both were associated to
	vincent i.e. self a association it then
	follows reflexive property for the rest
	of the prolog code.
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-	2] How does the queries in list. Pt File are
	excecuted?
	code: suffix (xs, ys)
	append (-, 4s, xs)
	Para Grandina (No. 1907)
	Prefix (xs, fs):- append (-, ys, rg)
2	append c, 93, 48)
	sublist (xs, ys):-
	Suffix (xs, 29)
	preffix (2s, 4s)
	hoer (CI, [])
	hoev ces, es)
	nrev ([HITE],L): nrev CTØ IT).
	append CT, [N], L].
	Query 1: ? sublist (ca, b, e, d, e], [c,d]).
	output: True.
	Explanation: A sublist procedure 100ks for a
	match between the first elements of the sublist
	& the main-list . Here [C,d] is the sublist of
	the main list Ea, b, c,d, eT. As the main list
	containts the sublist [c,d] the output is mue
	else , the output would have been false.

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		Query 2: ? Suffix ([q,b,c], zs).
		output: 2s [abc]
		2S=[b,c]
		25 = [c]
		25=[]
		Explanation: Suffix in gentral diminates the
<u></u>		front elements from alist, Here i by
		using suffix procedure, [a,b,c] element
		are somoved from a & continues until
		all the elements are removed as three
		are no more elements in the list, the
		output will be displayed as Falsé
	02	
	93	
		factorial of a number
2	-	Code: factorial (0,1)
		Factorial (N,F):
		N7O,
		Mis N-1
		factorial (N,F1)
		N is N*FI
		Query: ?. factorial (3, w)
		Output: w=6

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99	In example data set movies pl write query Strings & results of query execution for any OF 5 tasks:
a)	In which year was the movie american Beauty released?
	guery: ? - movie (American, beauty, 4)
	output: 9 = 1999
6)	find the movies released in year 2000
	Queary: ?-movie (M,2000) Output: M = down-from the-mountain M = 0 - brother-where-art-thou M = ghost-world.
9 C	Find movies released before 2000
	Query: ? - movie (M,y), 4 22000
	Output: M= american - beauty Y= 1999
	M= anna y= 1987
	M = barton - fink Y = 1991

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	Find the movies released after 1990
	Query: ? - movie (M, 4) 4 5 1996
	output: M = american - heauty. Y = 1999
	M= barton -fink. Y= 1991
	e) find a director of a movie in which scalett tohans son appeared.
	guery: ? - actress (M; Scarlett-Johansson)-)
	Output: D-Peter-webber M=gix1-with-a-pearl-earning.
95	formily, which has the following relations mother, father daughter, son, grandson, grand mather, sibling, unde, person, male, femal
	you heed to convert it into k & & write atteast a queries & Queries & Queries on your

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Diagram:
Jack Helen Oliver sophiec
Ali Jess city James
Ali Jess city James
Simon
Marry.
Family Tree
Query 1: 2 mother - of (x, jess)
Output: X = belen
avery 2: 2 parent - of (x, simon).
Output: x=jes
Query 3 - ? - Sister- of (x, lily)
output: x=jess
Querry 4: ? parent - of (x, harry).
output : X= lily ×= james.
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Page No.: K.G.C.E. Karjat - Raigad Date: QUERYS: ? QUAT- OF (x, simon) Output : x=1ily Query 6: 9 grandfather-of (x, harry) output: x=jack.