K.G.C.E. Rolog Programming Assignment Page No.: / Date: Name: Nichi Nitin Thakur Clax: BE. IT Koll nos 69 Branch: IT Subject: 13LAB

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	1) How does the greenes in Kb. pl file are executed? Scoole: loves (vincent, mia). loves (marcellus, mia). loves (pumpkin, honey-pumpy). loves (honey-bunny, pumpkin).
6—	jealans (x, y):- lanes (x, z), loves (y, z).
	Rury 1: 9-loves (x, mia). output: x = vincent x = Marcellus. Explanation: Here as we know vincent loves Mia as well as Marcellus loves mia. Thus the Kb assumes that x is either sincent or
6-	Marcellus Duery 2: ? - fealous (x, y) Output x = 4.87 = rement x = rement y = Marcellus x = Marcellus
	x=4,4= Marcellus x=4,4= Pumpkin x=4,4= Money-Lrumny Explanation: As there is no fixed parameter in our guery.

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	The guery will produce output of every featous (x, y) pair come out prolog code. The featon featous () rule follows. Silf association of them follows reflexive property for the rest of the gratog code.
	rest of the prolog code.
	2) How does the oneries in lists pl file are executed? > Code: Suffix (*5, 45):- append (-, 45, x5).
18 n M n	prefix (xs, 4s):- append (4s, -, xs).
	Sullist (75, 45):- Sulfix (x5, 75). Prefix (z5, 45).
	nrev ([],[]). nrev ([HITØ],L):-
	nrev (Tø, T), append (T, [H], L).
	Dutput: 7- Sullist ([a,b,c,d,e],[c,d]).
	A particular property of the second particular property of the second particular particu

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	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	toplanation: A sublist procedure looks for a match
	I between the first elements of the sub-list and the
	main-list Here, [c,d] is the sub-list of the 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.
	The sound of the s
	Denni S. S. Sulling (Tal (Tal)
	Bury 2: 9- Suffix ([a,b,c], Zs)
	Dulput: 25-[a, h, c]
	25=[b,c]
	25= [c]
	25= [7]
	falle
	Explanation: Suffix in general so eliminates the front
	elements from a list Here, by using suffix
	procedure, [a, b, c] elemente vie removed from
	a and continues until all elements are
	removed. As there are no more elements in the
	list, the output will be diplayed as 'false'.
21	
(5)	Programming create a Prolog code to find factorial of a
	mumber?
)	Code: factorial (0,1).
	factorial (N, E):-
	UN>0,
	N, is N-1

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1 1800	
(c) Find maries released aff before 2000	
Query: ?- marie (M,4),4< 2000	
Outret : M- amorican leautu	
Output: M= american_beauty Y= 1999	
9= 1999	
M= amma	
Y = 1987	
ा जानहींचेन भारतताः॥ रेटरे रे	
M = houton-fink. 4 = 1991	7639999999
34 2900 X	
d) Find the movies reliated after 1990.	
Query: ?-move (M, 4) 4 > 1990	
Output: M= american_beauty	MARKET
Y = 1999	
M = barton - fink	
M=barton-fink Y=1991	
e) Find a director of a movie in which	Scalett Johan son
and a market of a	
appeared	1.0
	× 1 0 · 1
Query: ? - actress (M, scarlett-johanss	m.)-) duector (M

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Query 2: 9 Parent of (x, Simon)	
Ordput: x= jess	
Querry 2: 9 - lett lieter of Con like	
Query 3: ? - Sty Sister - of (x, lily)	
0 1 1 20 0000	
Oulgut: x=jess	
Query4: ? - parent - of (x, harry)	
1 Slectue Hydali I V	
Output: $x = lily$ $x = james$	
x= james	
2////	
Query 5: ?- aunt-of (x, simon)	
Odi Abi	
Output: x= lily	
Query 6: ? grandfather of (x, harry)	
Output: X= jack.	
and the same of th	