	trole	og Programmin	g. Assignmo	ent.	
	Name :- Shu	bhangi Arun 1	Kolekax		
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	Prolog Programming Assignment			
41				
	Code: loves (Vincent, mia)			
	loves (marcellus, Mia)			
	loves (Pumpkin, honey-bunny)			
	loves Choney-bunny, pumpkins			
	jealovs (x, y):-			
	loves (x, z),			
	loves (Y, Z)			
	guery1: ?-loves (x, mia)			
	Output: x = vincent			
	X = Maxcellus.			
	Explanation: Here as we know vincent loves			
	Mia as well as Macellous loves mia.			
	thus the kb assumes that xis enter			
	Vincent or Marcellus			
	guery2: ?-jealous (x,y)			
	Output $x = y, x = Vincent$			
	x = Vincent			
	y = Marcellus			
	x = Marcellus			
	x = y, y = Marcellus			
	x = y; y = pumpkin			
	X = Y, y = Honey-bunny.			

	- married to the property of the second
	Explanation: As there is no fixed parameters in our query. The query will  produce output of every jealous (x, y)  pair on our prolog Code, The jealous ()'.  rule follows jealous (x, y): loves (x, z) kves(y,z)  initially, x and y both were ossociated to  uncent, i.e, self association. It then follows reflexive property for the rest of the prolog  Code.
0.7	
2]	How does the queries in lists. PI file are excuted
7	Code: Suffix (x5, y5):
	append (-, 4s, xs)
	Prefix (xs, ys):-
	append (4s, -, xs).
	as any link remustro dal sot andt
	Sublist (xs, ys):
	Suffix (xs,zs)
	Prefix (Zs, ys).
	6890 CHOL - 1 X 2 1 - 15400 DEC
	nrev ([], []).
	nrev [H]TO
	nrev ([HITO], L):
	nrev (TO,T),
	append (+, CHJ, L).
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guery 1: ? - Sublist ([a,b,c,d,e),[c,d]) Output True. Explanation: A Sublist Procedure looks for a Match between the first elements of the sublist and the main-list. Here [c,d] is the sub-list of the main list [a, b, c, d, e], As the main list contains the Sublist [c,d] the output is the true . Else, the output would be have been false. guery 2: ?- Suffix ([a,b,c], Zs) output: Zs = [a,b,c] ZS = [b, c] 25 = [c] 25 = 67 false Explanation: Suffix in general eliminates the Front elements from a list, Here, by using Suffix procedure, [a,b,c] elements are removed From a and continoues until all the elements are removed. As there are no more elemen--ts in the list, the output will be displayed as False. FOR EDUCATIONAL USE

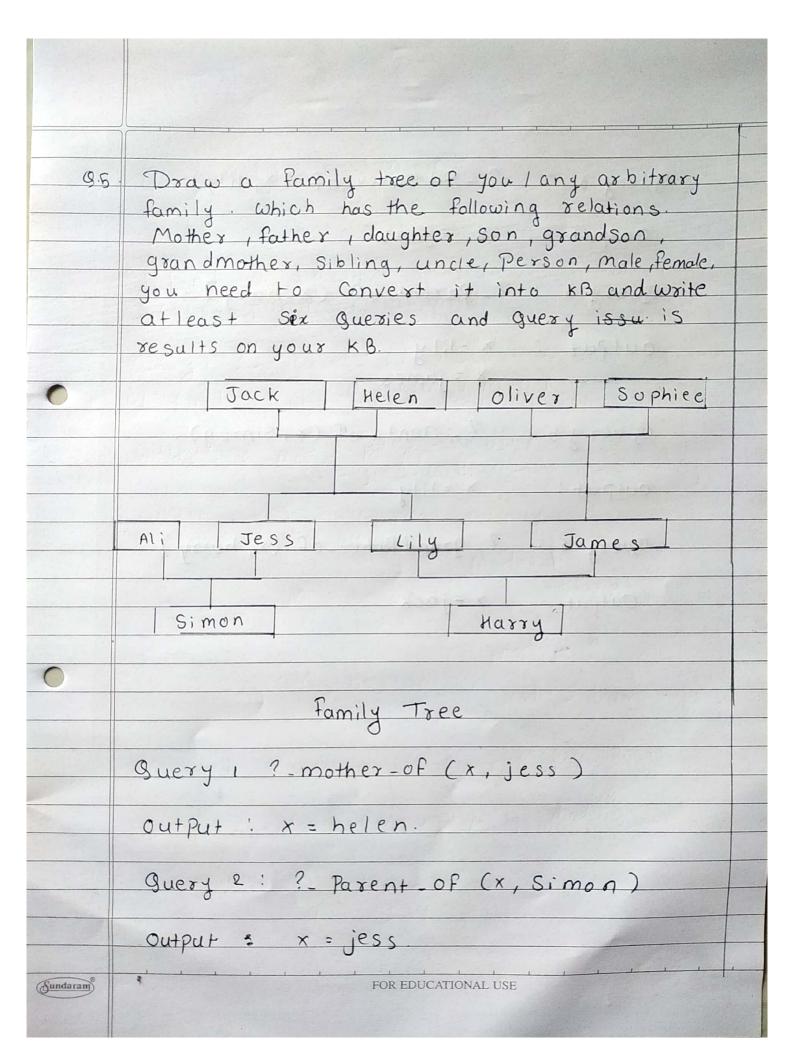
9.3.	Programming Create a Prolog Code to Find Factorial of a number?
	Code: factorial (0,1)
	factorial (N,F):-
	Factorial (N, F1) Nis N* F1
	guery: ?-factorial (3, w).
	Output W=6101-
Q.4.	In examples data set movies. Pl write query Strings and results of query execution for any of 5 tasks.
	a] In which year was the Movie American Beauty released?
300	guery: ?-movie Camerican-beauty 4)
	Output y=1999
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		11/2
	b3 find the movies released in year 2000.	
	guery: ?- movie (M,2000)	
	Output: M = down-from the - mountain M = D-brother where -art - thou	
1000	m = ghost_world	
	c] find Means Movies released before 2000	
154	query: ?-movie (M,Y), y<2000	
	output: M = american - beauty y = 1999	
HEREN,		
	M = anna	
	× = 1987	
0	00 - 1 - 0 - 0	
	M=bexton_Fink	
	y = 1991	
	d] find the movies relased after 1990	
	guery: ? - movie (M, y) y>1990	
	Output: M = american - beauty	
	y = 1999	
	1 - 1333	
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			113
	barton-fink	A Land	
9 -	1991	- 1 Dec Super	
27			
	lirector of a mo	vie in which	
scalet Long	insson appared.		
Query: ? - ac	tress (M. Scar	le K-Johansson	)_
Seed Suffere 2000	director (M,	0) 141 13	
output:	D = peter - Webb	ex.	
	M = girs-with-a		nq
- Library	end - in result = 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	is some i M		
	f XPL = A		
	Hair notrad = M		
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(APP) 1 1+10 h	e amora e relaçõe	dh haife si	
Elg c	LY IV, M ) H MON	ale green	
	M = QMESMIN = be		4 10
	PPPI = V	14 A C S ( )	
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	guery 3: ? - Sit Sister_of (x, lily).	
	output 1 x = jess	
	guery 4: ?- parent-of (x-hary)	
	output: x = lily x = james	0
	Querys: ?- aunt-of (x, simon).	
	output: X=1ily	
	Query 6: ? - grand father-of (x, harry)	
	Output: x = jack	
		0
	39 T plimat	
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