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1	PAGE No.				
	DATE	/	/		

Prolog	Programming	Assignment
1		

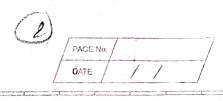
Name: Siddlig Namath Desai

Class : BE-IT

Batch: II

Roll no. : 13

	Prolog Programming Assignment PAGE NO						
a. i	How does the quaries in Kb.pl file execute?						
	code:						
	lores (vincent mia).						
	loves (marcellus, mia).						
	loves (pumkin honey-bunny).						
	loves (honey-bunny, pumisin).						
	jedous (x, y):						
-	loves (x, z)						
	lores (y, z).						
	The second of th						
· }	Quary 1: ?-lores (x, mia).						
	Dutput 1: x=vincent						
	x = mancellus						
•	Explanation? Huc as we know vincent loves mia as well as						
	marcellus loves mia, But Thus the Kb assumes						
	that × is either nincent / marcellus						
	1. (1, [11] [1] 1						
	Juny 2: ?- Jealous (X, Y).						
	Duput 2: X=Y7 Y= vincent						
	X=vincent						
	Y = morrelles						
	x = maucellus						
	Y = vincent						
	X=Y, N = marcellus						
	x=y, y=pumkin						
	.X=Y, Y = honey_bunny						
	Explaination: As there is no fixed parameter in our query.						
	The group will produce output of every scalour (x,y)						
	pair on our prolog code. The jealous () rule follows:						
*	pair on our prolog code. The jewous ()'nule follows: jewous (x,y)? - loves (x, z), loves (y, z).						
	Initially , x and y both were associated to vincenty,						



i.e. set set - association.

It then follows Reflexive Property for the mest of

the prolog code.

9.2] How does the good'es in lists. pl files executed? Code :-

suggix (Xs, Ys)? -

pugix (xs, ys): -

append (48, __ , X3).

Sublist (Xs, Ys) ? -

Syffix (Xs, Zs), man 1 miles

projen (Zs, Vs).

nox ([],[]).

nxv([HITO], 1)? nxev (To, T),

append (T, [HJ, L).

Quay 1? ?-sublist ([a,b,c,d,e], [c,d])

Super 1: truc

Explaination: Essentially look for a moteu between the

first element of sublist and mainlist using the sublist procedure. When a match occurs, head over

to the prelist procedure & cheds if this turns out to be a prefix for the semaindeu of the list. If so, the usolution ends in success.

Quay 2 ? suffi ? - suffix ([a,b,c], 23)

Output 2 \$ Zs = [a,b,c] 20 = [b,c]

/	PAGE	No.			/		
	DATE		/	/			

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	_	0_	\mathbf{v}_{i}	rnce		CMC.	_ 000		\sim

M=ghost_world

c.) find mories released before 2000.

-> group: -=?-morie (M,Y), N< 2000.

Ouput: M= amorican_beauty,

Y=1999

m = bouton-fins,

y = 1991

d.) find the movies odeased after 1990.

-> gray: ?- movies (M,Y), 471990.

Suput: M = amovican-beauty,

7 = 1999

m = bouton_fink,

Y = 1991

f.) find a director ey a morie in which & Scarlett Jonnson

July: ?- autress (My Scoulett -johnson ; -), director (M,D).

Duput: D=peter_webber, m = girl-with_ a-peaul- carring

(9.5) Draw a jamily tree of youlary autitory family. Which was foll. relations mother, Jather, daughter, son grandson, sibling, unde, peuson, male, female. You need to convert it into KB and write atteast 6 queries and query menults on your KB.

tamily tree; Helen Sophica Jack 7683 lity "James Smon Have Code C-mother of (X, jess). X=helin Juay 1: Output 1: ?- pavent of (x, simon). x=jess greny 2: Owput 4 ? R-sisten-of (x, lily). govery 3 ! gotgan 8: ?-payent-of (x, havry). Defrate ? Owput 4 3 x = james guerry 9: . ?- auntral (x, simon) Outputs: 1 = lily L-grandyater of (x, havry). Dupper 8: x = aus