	DATE
	Prolog Programming Assignment
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	Sem :- VII
	Class: BEIT
	subject: AI
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Y1.0	How does the queries in kb.pl file are executed?
->	
	code: loves (vincent, mia)
	loves (marcellus, mia)
	loves (Pympkin, honry-bynny)
	loves (honey-bunny, pumpkin)
	jeoloys (x, y):-
	(oves (X, z),
	Joves (Y, Z).
	Output: ?- loves (x, mia) Output: X = Unjunt
	X= Marcellas
	Explaination: Here a we know vinant loves mia as well as
	Marcellu love mia. Thus the kb assumes that x
	is either vincent or Marcellus.
	Query 2: 3- jealous (XIY)
	Output: X = Y, X = Vincent
	x = Vinant
	x= Marcellus
	X = Marcellus
	X = Y, Y = Marcellus
	X = Y, Y = Pumpkin
	X = Y, Y = Money-bynny
	Explaination: As there is no fixed parameters in our query. The
	query will produce output of every jealous (x, Y) pais
	on our prolog code, the jeglous (1' rule follows
	jeglow (x, x):- loves (x,z), loves (Y,z)
	initially, X&Y both were associated to vincen
*	i.e., self association. It then follows relexive
	property for the nest of the prolog code.

9.27	How does the queries in lists, pl file one executed!
\rightarrow	
	code: suffix (xs, xs):-
	append (-, Ys. xs).
7	
	Prefix (xs, xs):-
	append (Ys, -1 Xs)
	Sublist (xs, ys) :-
	suffix (xs,zs),
	Prefix (ZS, YS)
	FYCT X (Z S, 1 S)
	nrev ([], [])
	nrev(CH(TO), L):-
	· nrev (TØ iT)
	append (TICHJIL)
,	purery 1: ? - sublist ([a,b,c,d,e], [c,d]).
E	Explaination: A sublist procedyre looks for a match between
t	he first elements of the sublist & the mainlist us. Here
	[Cid] is the sublist of the mainlist [ab, cidie] . As the
	nainlist contains the sublist [c,d], the output is true. Els
	he output would have been Felse.
9	very 2: ? - suffix (Eq.b.c], zs)
	alput: ZS = [a,b,c]
	zs = [b,c]
	ZS = [c]
	$ZS = \Gamma J$
	15 false
En	plaination: Suffix in general eliminates the front element
	om a list. Here, by wing suffix procedure, [abic]
1 1 1 4	ements are removed from a f continues until all the

	etements are removed. As there are no more elements in He
	list, the output will be displayed as 'False'.
Q.3>	Programming Create a prolog code to find a factorial of
	a number.
\rightarrow	
	code: ferctorial (011)
	factorial (NiF):
	N>01
	N. is N-1,
	Factorial (N, FD)
	Nis N*Fi
	Query 1: ? - Factorial (31W)
	output: w=6
	In examples data set movies pl write query strings 4
	In examples data set movies pl write query strings of results of query execution for any of 5 tacks:
, 1 \ ;	In examples data set movies pl write query strings of results of query execution for any of 5 tacks:
.9	In examples data set movies pl write query strings of results of query execution for any of 5 tacks: In which year was the movie American Beadly released?
.9	In examples data set movies pl write query strings of results of query execution for any of 5 tasks: In which year was the movie American Beauty released? Query: ?- movie (american beauty 17)
.9	In examples data set movies pl write query strings of results of query execution for any of 5 tacks: In which year was the movie American Beadly released?
.9	In examples data set movies pl write query strings of results of query execution for any of 5 tasks: In which year was the movie American Begaty released? Query: ?- movie (american begaty, y) output: Y=1999
(p. /d.	In examples data set movies pl write query strings of tesults of query execution for any of 5 tasks: In which year was the movie American Beadty released? Query: ?- movie (american beauty 17) output: Y=1999 Find the movies released in year 2000
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