How does the queries in Kb. pl file of e Corented ? Code: loves (Vincent, mia). loves (marcelles, mia). loves C. Pumpkin, honey-bunny). loves (honey-bunny, Pumpkin) Dealous (x, y) :-10 VES (X, E). 1000 S (7, 2). Query1: 2- loves (x, mia). Output: X = Viocent X = Marrellus Explanation: - Here of we know Vincent loves Mia of well of Marcellus loves Mia. Thus the Kb assumes that & is either vincent or Marcellus (Sue of 2:- ? - Jealous(x,y) output X = J, X = Vincent X = Vincent Y= Marcellus X = Marrallus X= Y, Y = Marcellos x = Y, 7 = Rumpkin X y - Honey- hu





	Date:
	Explanation: 08 there is no fixed parameters
	In our query the query will as produce autol
	Declous (x, y) pair on not malad
	The Jectous (1' rule tollage ionland
	(x,y): loves (x,z), loves (.y,z) It often follows receive property to gothe rest
	Mous receive property to Ethe rest
	of the prolog Code.
2	Han aloo o and a de
	How does queries in list. Pl bile over excuted
7	Coole: Subbix (xs, 75):
	append C-1 xs, xs).
	Proefix Cxs, ys):-
	append (45, - xs).
	Sublist C. X3, 75):-
	Suffix (XS, ZS)
	Prefix (25, 48).
	then nrev ([],[]).
	brev(CH3/TO],1):
	nger (TO,T)
	append (T, [H], L)
	Quertz= 2-5ublist ([a,b,c,d,e],[c,d]).
	Output: Frue

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Date:

Explanation: A Sublist procedure looks for a
martch between the first elements of the
Sub-list & the main-list us Here [c, a] is
the Sub-list of the mainlist [a,b,c,d,e].
As the main list containts the Subtist [cd],
the output is true. Else the output whould
have been faise.

Query 2:- ?- Subbix ([9,6,], 75)

output: 25=[9,6]

Zs = [c]

ZS=[]

For 18C

Explaination: Subtix in general Eliminates the Arant Element brown a list, Hore, by using Suttix procedure, Ia, b, c] Elements ore removed from a f Continues until all the elements of e removed. As there are no more elements in the list, the output will be displayed as false,

9.3) Programming Correcte a prolong Coale do bind

factorial Ob a number ?

Coale: - factorial (a,1).

Partorial (N,F):-

Date: N, 1'5 N-1, factorial (N, F.), 10 is 1 * Fi Suery: ?- factorial (3,00). output: w=6 84 In examples data set movies pl write quent Strings and results of query execution fore and on 5 tasks ?: 9) In which year was the movie American Beauty released? Query: ?- movie Camerica, beauty, 1). Output: y= 1999

b) Lind the movies released in your 2000

Suemy: ? - movie (M, 2000). output. M = dow- from - the mountain M= R- brother- where JE+-thand M= 9hos+-world



5	TASGAR BARASWATTIK
u -	C) Final mouses released before 2000
di bi	Bueny: ? - movie (M,7), 722000
116	Output: M= anerian - beauty
	J= 1999
	$M = \alpha nnq$ $X = 1987$
	M = barton - Fins
	$\chi = 1991$
	Query: ? - movies relessed after 1930
	output: M= american-beaudy
	72 1999
	M = bounton -fink 7 = 1991
	e) Find a director of a movie in which
	Scalett Johansson appered. Surry: ?- address (M; Scarler H-Johansson).)
	ONITECTON (M.O)
	output: 0 = Peter - webber.





	Date:
	M=9in-with-9-pearl-earing
	Draw a family tree objoulary ambirtant damily which has the following relations mother, forther alaughter, son, grandson, grandmother, Sibling under Person, male, female, you need to Convert into Ke and write alteast 6 queries & query result on your Ke.
	result on your Ke.
)	Jack Itelen Bliver Sophie
	Ali] Jess Lily James
	15 iman 1 . I Hammy
	Family Tree
	Query1: ? mother-of (Xiess)
	output: 8 = helen

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Date:
Query 2: ? Parent-07 (X, Simon)
Output: X = jess
Gurry 3. ? - Sister - Of Cx, 1:14).
autput: X= jess
Suerry 4: ? - Parent - Or (x, harry).
Output: X=1ily X-, James,
Quent 5: ?- aint of Cxisimon).
output. X=1ily
guerry 6: ? grandfather-Of Cx, harry).
Output: X=Jack.