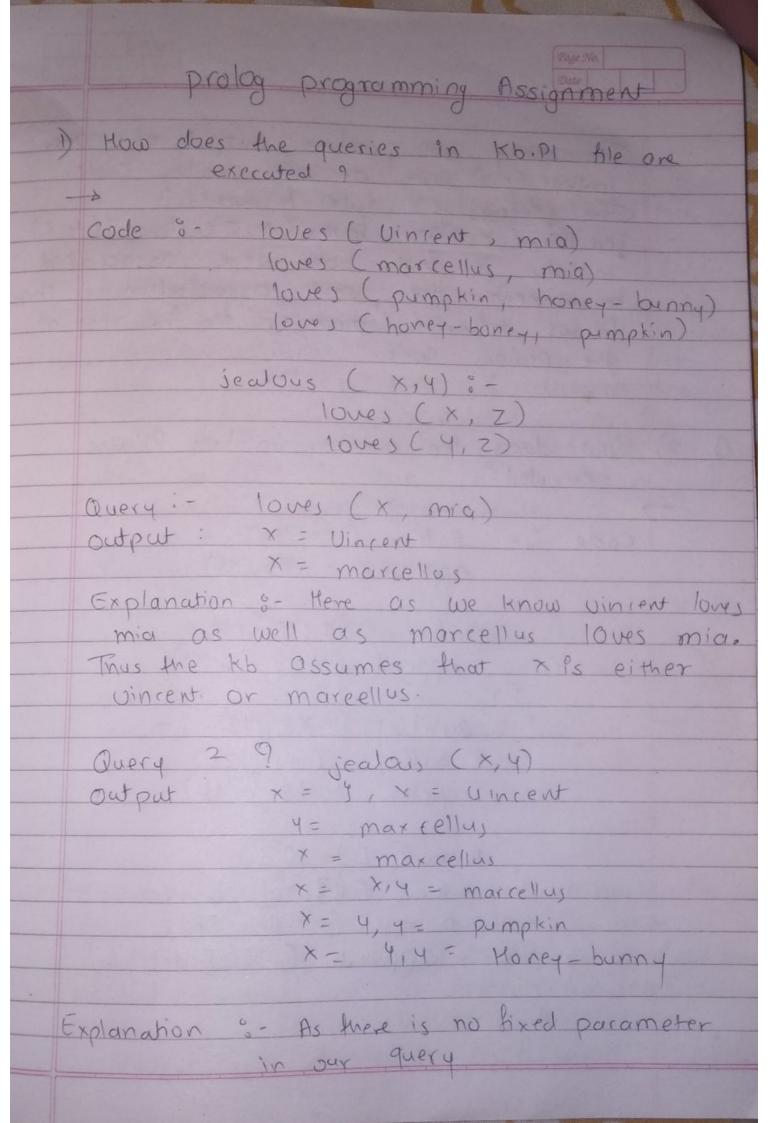
Mital Rumesh Nalowed. Name :class subject 5- AI Sign marks D. O. A



The query will produce output of a Jewlous (XY) pair on our prolog code The jewlous () rule follows. jea lous (x, y): loves (x, Z), loves (initially x 844 both were associate to uncent i.e., self association. follows reflexive property for the rest the prolog code. Q 2) How does the queries in lists Plane executed? code :- Suffix (xs, ys):append (-, 75, x5). prefix (x5, 45) :append (45, -, xs Sublist (x5, 45) ; suffix (xs, 25). prefix (25, 45) nrev ([], []) nru ([H3] TO], 1): n rev (TO. append TTIHII



Query : -

Sublist ([a,b,c,d,e], [c,d])

Explanation of A Subject procedure looks for a match between the hist elements of the Subject and the main list Mere, (c,d) is the Sub-list of the main list (a,b,c,d,e). As the main list contains the Subject (c,d) the output is true. Else, the output cooxed have been false.

Query 2 3 - Sublist

suffix ([a,b,c], 25)

output :- 25 = [a,b,c] 25 = [b,c] 25 = [] tabe.

Explonation 3- suffix in general elements the front element from a list. Here by using suffix procedure, (Ca,b,c) elements are removed from a and continue until all elements are removed. As there are no more elements in the list, the output will displayed as fulse.

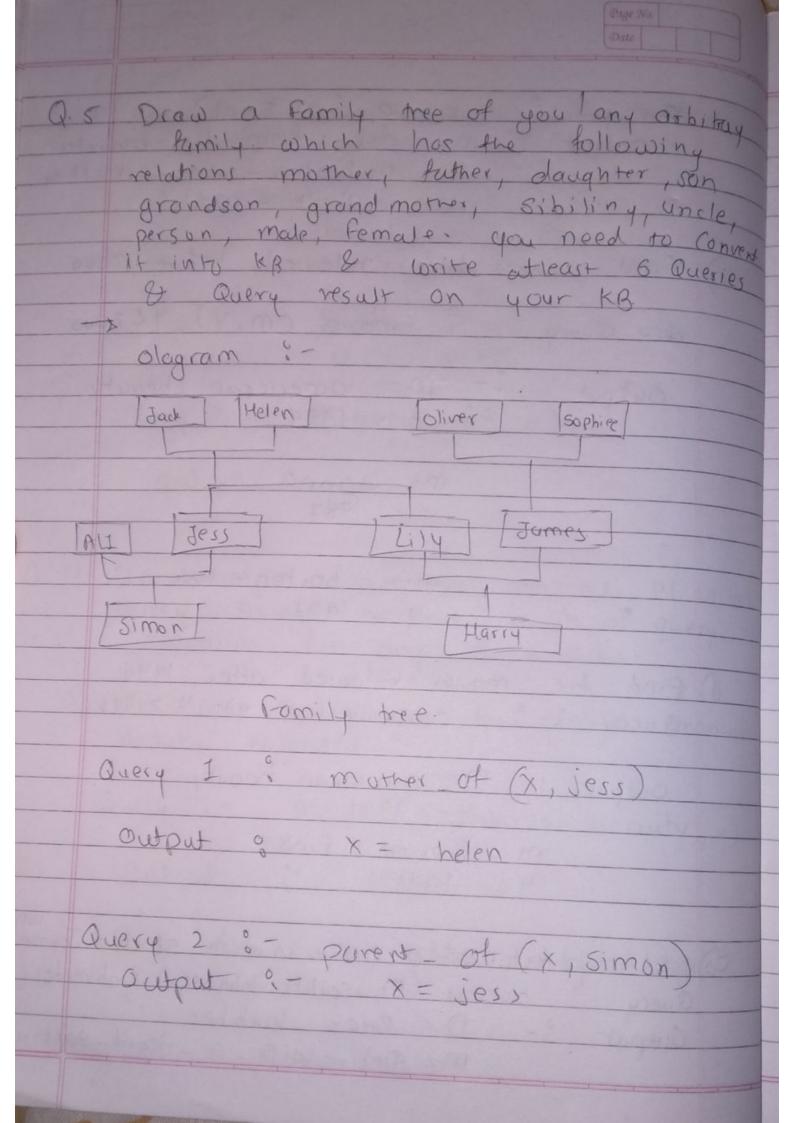
a 3 programming create a prolog code to base factorial of a number code Factorial (0,1). Pactorial (N,F):fuctorial (N., F.) Query ? Pactorial (3, w) output :- W=6 a. 4 In examples data set movies plant our of guery strings of and results of query execution for any of 5 tasks: In which year was the movie America Beauty released? Query: - movies Camerican beauty, 4 = 1999 Output Find the movies relased in year 2000

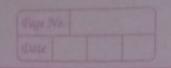
Query 9 movie (m. 2000) output m= down-from- the mountain m= 0- brother - where-art-thou m= ghost - world) Find movies teto released before 2000 des avery 9 movie (m, y), 422000 Output :- m= american beauty m= anna 4 = 1987 m = boston - fink 4 - 1991 a guery ?- ? - movie (m, y), 4 > 1990. Output: M= omerican beauty 4 - 1991 m = barton - Fink 4= 1991 e) Find a director of a movie in which scalett Johnson A

Query actress (m iscalett Johnsson), alirector (m, D)

Output 3- D = Peter Webber

M = girl - with - q - Pearl - earring





Overy 3:9 - sister of (x, lily)

Output :- x=iess

Overy 4:9 - perent of (x, horry)

output :- x= lily

X = Jomes

Output x = lily

Output x = lily