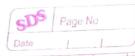
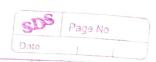
Prolog Programming Ass.



Ď	How does the queries in kbipt file are executed?
	re en
	Code : lovis (vinceat, mio).
	loves (morcellus; mila)
	loves (Pumplein, honey-bunny)
	loves (honey - bunny - pumkin).
	Jealous (x, y):
	lovesic x,2)
	loves (Y, Z)
	avery: ? - loves (x.mia)
	output X = vincent
	X = Max cellus
	Explanation: Here as we know vincent loves Mia
	as will as Marcellus loves mio. Thus
	the Kb assumes that x is either
	uincent or Marcellus
	With the second
_	query 2: n= jeolous (x,y).
	X = Y, Y : Vinant
	X = Uincent
	y = Manuel
	x = Morallous
	x - Y, Y = Morallus
	x: V, Y= Pumphin
	Y = Y, Y = Hancy - bunny
	Explanation As there is no fixed parameters in
	Our over



on our prolog code The jeolous () rule follows

jeolous (x, x): loves (x, x), loves (x, x)

Initially x dex both were dissociated to uncent

i.e. self association. (to then follows replaine

property for the nest of prology code

2) How does the quenes in lists pl file are

nrev (CHI TO). L):.

nrev (TO, T)

append (+ CHI, L)

Query 1: 7. - Sublist (Faib. c.d.e.], [c.d].



Explanation: A Sublist procedure looks for a match between the first elements of the sub-list and the main-list of there [c,d] is the sub-list of the main list Carb, c,d,e] AS the main list contains the sublist CC,d). The output would have been false

Query 2: ?- suffix ((a,b,c),25)

Output: 2s= [anb, c]

25 : [b,c]

25 : [c]

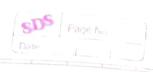
Zs + C.J. and they time

false

Explanation : suffix in general elimination the frunt eliminate from a list Here, by using suffix procedure. Earlb. CJ elements are removed from a and continues until all the elements are removed the there are no more elements in list. The autput will be displayed as false.

Q.3. Programming (reate à prolug cude to find

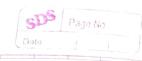
code: factorial (b.1).



	N20;
	N. is M-1
	·· factoria) (N, f,).
	Mis Mi fl
	Query ? - factorial (3, w)
	output: W=6
a 1:	In examples data set movies pl unite
9 4.	query strings and results of query execution
	query strings and
	for any of 5 tasks:
ďγ	In which year was the removie American
a ^	In which year was the
	Beauty released?
	query: ? - movie (omerican beatity . V)
	query: 12 mone comentant beauty
	1000
	Output - 7 = 1.999
	The same of the sa
6)	
	query: ? - movie (M., 2000)
	outpyt: M: down from the mountain
	M = : 0 - brother - where - on 1 - thou
	M = ghost-world
	Jilust - world



o) find mour, released before 2000 Query: ? = movie (MY), y < 2000 the same and the same of the same output: m= amenian - beauty 1. 1. 1. Y. 7. 1999 11 21 11 11 M = anno p. 1987 M = borron - link y = 1991 6) find. the movies released after- 1990 query: 1 - movie (M, Y) . Y > 1990 : 12 output: M= american beauty 7 - 1949 m · borton-fink Y = 1991 ... X e) find a director of a movie in which scalett Johansson appeared query: ? address (M) i coarlett - Johnsson Ji-director (M) a) output :- 0 = pelex - webber M = girl - with - a pearl - earning



Draw a family free of you land on bitory. family which has the following relations 95. mother, Ruther, Haughter, son, grandson, grordmother, sibling, uncle, person, male, female you need to convert it into kh and unit atleast 6 queries and query result on your 63 Diogram Sophice Olivas Helen Jude James ! Jess A(i Hamy Simon family Tree Query 1: ? mother - of (x, jess) output: X : helen Query 2: ? parent-of (xisimon).

output: x = jess

Cavery 3: ? - sister_of (x. lily)

output: X - jess

Quing 4: ? - parent-of (x, horry)

output: x= lily x: james

Query 5: ?- ount-of (x.simon).

output: x=lily

Query 6: ? grandfather _ of (x, harry)

Output: x=jade.