Paolog paogramming Assignment

1) How do the quedies in Kb.Pl file are executed?

10 (odci loves (uincent; mia).
10 ves (marcellus, mia).
10 ves (Pumpkin ihoney-bunny)
10 ves (honey-bunny, Pumpkin)

Tealous (x,y):loves (x,z).

quedy: ? - loves (x, mia). output: x = vincent x = max(e) w

Explanation: Here as he know vincent loves
mia as hell as Marcellus loves
mia thus the Kb assumes
that x is either vincent a
max cellus

quedy 2: 2 - Jealous (x,y)

outpul x = x,x · vinkent

x = vincent

y = mad(ellu)

x = x y - mad(ellu)

x = y, y = Hancy bunny

x = y, y = Hancy bunny

Explanation as three is no lixed Padamet

The query will produce output a every icalous (x, u) pair on our prolog code. The scalous (1) rule follows fralous (x, v) = loves (x, z), loves (x, z) initially , x and y were associated to vincent, i.e. Self association it her tollow replaced to the prolog code.

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- 2) How does the queries in lists. 81 file are
- p) (ode: suttil (xs, ys):
 append (-, ys, xs).

cay, 2x) kits 69 cax, -, 2x) Laggo

sublist (xs, ys): Suttix (xs, zs): Pocfix (zs, ys).

18ev ([], []).
18cv ([HITO], 1):
18cv ([HITO], 1):
18cv ([0, 7)
18cv ([0, 7)
18cv ([0, 7)
18cv ([0, 7)
18cv ([0, 7])
18cv ([0, 7])

quedul: ?-Sublist ([a,b,c,d,e],[c,d])

Explanation! A sublid procedure look for a match between the first elements of the sublist and the main-list lever [C, J] is the sub-list of the main-list [a,b) (id,c) as the main list contains the sublist [C,d]. The output be output been false.

quedy 2: ?- Suffix ([q, b, c], zs)

25: [a,b,c] 25: [b,c] 25: [c] 25: []

Explonation: Suffix in general eliminater
the food elements from a list
there, by wing suffix procedure.

[ajb, Or elements are demoved
from a and continue until
all the elements are
removed, as there are no
more elements in this list.
the output will be displayed a

- 93) Pagramming cocale a Paolog code to
- P) Code: tactorial (o,1):
 factorial (N,f):-

Pyery 2 - factorial (3, W).

OUTPUL, WEL

- query strings and results of query execution for any of 5 tasks:
 - Beauty delocated?

Query: 1- Movie (amédican beauty 14)

output - 12 1999

b) find the movies released in year 2000

gueru: ?-movie (n, 2000)

output: m- down from the mountain

m- o-brother - Where - adt-thou

m= 9host - world

c) find movies released before 2000

query? - movie (m, v) ,4<2000

output: m: american-beauty

m= onna

m: booton-fink

aucry: 22 Movie (M,V): 47/1990.

Output: M2 amedican-beauty

12 1999

M= booton-fink

Scalett Johan Sson approved in Which

outpu: 2 - actress (m: Scorlet - tohon ston)

director (mp)

outpu: D- Petor - Webber.

m = girl - with- a-Pear) - earling

guesi Boxe (12, 1), 452000

AUGUST ANDRESSES IN THESE

ALLO TH

family which has the following relations mother, father, daughter, son, grandson, grandmother, sibling, unde person male, france, you need to convert it into KB and write atleast 6 sucries and oucry results on your KB.

Diagram

Jack Belen Oliver Suphiee

Simon

Hurry

family Trec

guery 1: ? - mother of (x, jess)

output: x= helen

Quedy 2: ? Parent _ OL (x, simon)

output: X= Jess

Query 3: ? - sisted of (x, 111y).

Output: x = jest

Output: x = jest

Output: x = lity

x = James

guery 5: 2 - aunt - al (x, simon)

guery 6: ? grondfather of (xhoody)

DAY MELTER

output: 7= Jack

1 66 ALF

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And the same