

AI Assignment 6

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Code - ass6.pl

```
wife(komal,salman).
husband(salman,komal).

brother(virat,komal).
brother(ramesh,salman).

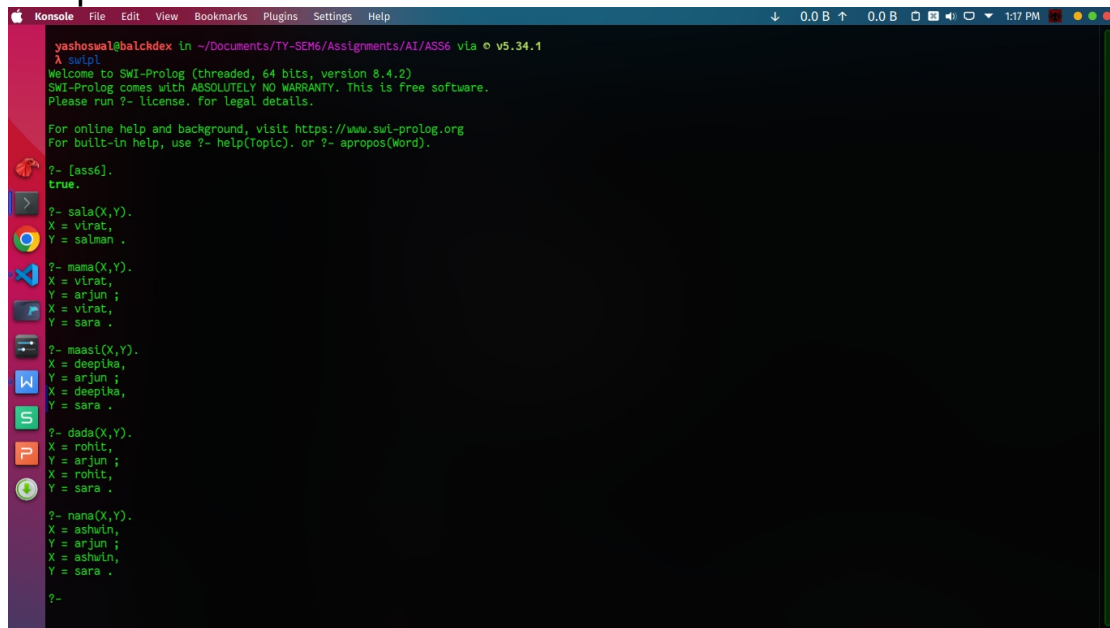
sister(deepika,komal).
sister(rutuja,salman).

father(rohit,salman).
father(ashwin,komal).
father(salman,arjun).
father(salman,sara).

mother(pooja,salman).
mother(ria,komal).
mother(komal,arjun).
mother(komal,sara).

uncle(X,Z):- brother(X,Y), father(Y,Z).
sala(X,Z):- brother(X,Y), wife(Y,Z).
chacha(X,Z):- brother(X,Y), father(Y,Z).
mama(X,Z):- brother(X,Y), mother(Y,Z).
maasi(X,Z):- sister(X,Y), mother(Y,Z).
fufi(X,Z):- sister(X,Y), father(Y,Z).
dada(X,Z):- father(X,Y), father(Y,Z).
dadi(X,Z):- mother(X,Y), father(Y,Z).
nana(X,Z):- father(X,Y), mother(Y,Z).
nani(X,Z):- mother(X,Y), mother(Y,Z).
```

Output -



```
yashoswal@balchdex in ~/Documents/TY-SEM6/Assignments/AI/ASS6 via v5.34.1
λ swipl
Welcome to SWI-Prolog (threaded, 64 bits, version 8.4.2)
SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free software.
Please run ?- license. for legal details.

For online help and background, visit https://www.swi-prolog.org
For built-in help, use ?- help(Topic). or ?- apropos(Word).

?- [ass6].
true.

?- sala(X,Y).
X = virat,
Y = salman .

?- mama(X,Y).
X = virat,
Y = arjun ;
X = virat,
Y = sara .

?- maasi(X,Y).
X = deepika,
Y = arjun ;
X = deepika,
Y = sara .

?- dada(X,Y).
X = rohit,
Y = arjun ;
X = rohit,
Y = sara .

?- nana(X,Y).
X = ashwin,
Y = arjun ;
X = ashwin,
Y = sara .

?-
```