

APT1030-B: FUNDAMENTALS OF PROGRAMMING LANGUAGES

Instructor: Edward Ombui PhD.

Family Tree Assignment on Prolog

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Information provided:
% Assignment family tree on prolog
% Knowledge bases
male(michael).
male(ambrose).
male(james).
male(dustine).
male(wayne).
female(mary).
female(rose).
female(qiuteen).
female(agnes).
father(michael,ambrose).
father(ambrose,james).
father(james,dustine).
father(james,wayne).
father(james,qiuteen).
mother(mary,james).
mother(agnes,rose).
mother(rose,dustine).
mother(rose,wayne).
mother(rose,qiuteen).
$is_spouse(X,Y):-father(X,Z),mother(Y,Z).$
is_sibling(X,Y):-father(Z,X),father(Z,Y), $X = Y$.

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Dufine Kibagerdi.



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Input/Output:
father(X,dustine).
X = james
mother(X,dustine).
X = rose
is_spouse(X,james).
false
is spouse(X,rose).
X = james
father(X,qiuteen).
X = james
father(X, wayne).
X = james
father(X,qiuteen).
X = james
mother(X, james).
X = mary
mother(X, rose).
X = agnes
father(X,james).
X = ambrose
father(X,ambrose).
X = Michael
is_sibling(X,wayne).
X = dustine
X = qiuteen
is_sibling(X,dustine).
X = wayne
X = qiuteen
is_sibling(X,qiuteen).
X = dustine
X = wayne
```

false



Screenshots:













