ancestor(phil, abigail)

① ancestor(X,Y). Fails

② ancestor(X,Y) :- parent(phil, Z), ancestor(Z, abigail)

③ parent(phil, Y) :- father(phil, Y)

④ parent(jennifer, Z) :- father(jennifer, z)

⑤ ancestor(Y,X). Fails

⑥ ancestor(jennifer, abigail) :- parent(jennifer, Z), ancestor(Z, abigail)

⑦ parent(jennifer, z) :- father(jennifer, z)

⑧ father(mike, abigail) Fails

⑨ ⑩ ⑪ ⑫

⑬ father(phil, tom)) Fails

⑭ parent(jennifer, z) :- mother(jennifer, z)

⑮ mother(jennifer, abigail)

⑯ ancestor(abigail, abigail).

father(phil, jennifer)

father(phil, abigail)

mother(jennifer, abigail)

jennifer

phil abigail

succeeds.