Fac 0 =1 ///Base case

n\*fac(n-1)//Inductive case

n=5

5\*fac(4)

5\*4\*fac(3)

5\*4\*3\*fac(2)

5\*4\*3\*2\*fac(1)

5\*4\*3\*2\*1fac(0)

5\*4\*3\*2\*1\*1

child(anna,bridget).

child(bridget,caroline).

child(caroline,donna).

child(donna,emily).

descend(X,Y):- child(X,Y). //Base Case

descend(X,Y):- child(X,Z), descend(Z,Y).//inductive case

X=anna Y= donna

descend(anna,donna)

Z=bridget

descend(bridget,donna)

Z=caroline

descend(caroline,donna)

descend(anna,donna):- child(anna,Z), descend(Z,donna).

Z=bridget

descend(bridget,donna):-child(bridget,Z), descend(Z,donna).

Z=caroline

descend(caroline,donna).

X--->Y

anna--->bridget---->caroline---->donna