Unification

X=Y if true then they unify

If false otherwise

X= Y X=0 Y=X

2=3

Rules

1. X & Y are permitted to be uninstantiated variables

X=10

X=Y

1. Integers and atoms are equal to themselves
2. 2 structures are equal if :
3. Same functors
4. Same no of componenets
5. Corresponding components are equal.

a(b,c(d,e)) = a(X,c(X,e))

a(b,c())=a(X,c())

X=b c()

a(b,c(d,e))=a(X,c(Y,e))

Y=d

a(b,c(d,e))=a(X,c(Y,e))

X=b

Y=d e=e

woman(mia)=woman(X)

x(2)=y(2)

a(b,c())=a(X,c())

X=b

a(b,c(d,e))=a(X,c(Y,e))

a(b,c(d,e))=a(X,c(Y,e))

X=b

d=X

e=e

a( b,c() ) = a( X,c() )

X=b

a( b,c(d,e) ) = a( X,c(Y,e) )

d=Y





