Name: Mahammad Elleholy ID: 900202159 Q(V, V, U) :- V = 0.g(v, v, x) : - not(v = 0),Y is I mad V, o (v, Y, X) query: q(75,45,7) output: Z=15 This programe computes gcd of (U,V)1. if V=0, then gcd(U,V)=U2. if V 70 A Y = U mod V A g (V, U mod V) ged (U,V) = X. Q2) q(CJ, x, x), a ([AIX], Y, [AIZ]):- a(x, Y, Z) query: a([6,a,b,c], [w,z], Z) output: Z = [6, a,b,c, w,2]

functionality at program: concatenates a list.
1. a([], X,X) = if list is empty, they new
list is X
2. a([A/x], Y, [A/Z]): - a (x, Y, Z).
=) if list not empty, concatenate
Head of list (A) that has tail X with Y
recorsively & store new in the form
[Head New list).