Aplicații loborator 1) Sã se colculeze valeono função ((xy,z)=7 Program Andog functie (real, real, real, real) junctie (X, Y, Z, F):- F= X+Y+Z, X>1, Y>1, 2>1, ... Junctie (X, Y, Z, F): - F=X-Y-Z, X>1, Y>1, Z<0,].
Junctie (X, Y, Z, F): - F= X*X+Y+1. Executive Junetin (2,7,8, Valean. f). Colculul pentru CMMAC(X,Y), X,Y & Z i CMMMC (X,Y). (X) (X, 7) = (Y X mod Y) $(x,y)\cdot [x,y] = X\cdot y \Rightarrow |[x,y] = x\cdot y|(x,y)| (**)$ Program Arlos predicates commundation integer, integer) comme (integer, integer, integer) eminde (X, Y, Y): = mod (X, Y) ==0, 1. comm de $(X, Y, \underline{D}) : -R$ is mod(X, Y), commde (Y, R, \underline{D}) . commo (X,Y,M): - conndc(X,Y,L), M is <math>(X*Y)/1Exercitie: cmmdc (30,45, 1). ~CMMME (30, 45, M)

fundic (X, Y, Z, F): - F is X+Y+Z, X>1, Y>1, Z>1, !.

Yundic (X, Y, Z, F): - F is X-Y-Z, X>1, Y>1, Z<0, !.

Yundic (X, Y, Z, F): - F is X*X+Y+1.

2') Sa se determine c mmdc(x,y,z) si c mmmc(x,y,z). $x,y,z \in \mathbb{Z}$ (x,y,z) = ((x,y,z), [x,y,z] = [x,y,z]. $(Ri,Z) \quad Ms \quad [Ri,Z]$ $cmmdcs(x,y,z,\Delta s) := cmmdc(x,y,Ri), cmmdc(Ri,Z,\Delta s).$ cmmmcs(x,y,z,Ms) := cmmac(x,y,Ri), cmmmc(Ri,Z,Ms).

3) Sã se colculge valores expresiei E(a,b,c), $a,bc \in \mathcal{U}$, unde: i) $E(a,b,c) = [a,c] + \max(a,b) - \min(b,c) + (a,b) + \max(a,b,c) - [a,b]$ ii) $E(a,b,c) = a - b + (a,b,c) - [a,c] + \min(a,b,c) - (a,c)$.