Solución de la practica de Repetitivos en Prolog.

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factorial(0,1):-!.
factorial(N,F):- N>0,!,N1 is N-1, factorial(N1,F1),F is N*F1.
divisor(X,Y):- X mod Y =:= 0 ,!, write(Y),nl.
divisor(_,_):-!.
reportedivisores(N,C):- C=<N,!,divisor(N,C),C1 is C+1,reportedivisores(N,C1).
reportedivisores(_,_):-!.
mcd(A,B,R):- A mod B =:=0,!,R is B.
mcd(A,B,R1):- A1 is B,B1 is A mod B, mcd(A1,B1,R1).
sumadigitos(N,S):- N>0,!,DIG is N mod 10, N1 is N //10, sumadigitos(N1,S1),
   S is S1+DIG.
sumadigitos(_,0).
reportereves(N):- N>0,!,DIG is N mod 10, write(DIG), N1 is  N //10,
   reportereves(N1).
reportereves(_):-!.
fibonacci(1,1).
fibonacci(2,1).
fibonacci(N,F):- N1 is N-1,N2 is N-2, fibonacci(N1,F1), fibonacci(N2,F2),
   F is F1+F2.
reporteterminos(N):- N>0,!,N1 is N-1, reporteterminos(N1),
   fibonacci(N,F),write(F),nl.
reporteterminos(_):-!.
programa1:- write('Ingrese numero : '),
   read(N),
   factorial(N,F),write('El factorial es: '),
   write(F),nl.
programa2:- write('Ingrese numero : '),
   read(N),
   reportedivisores(N,1).
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programa3:- write('Primer numero : '),
   read(A),
   write('Segundo numero : '),
   read(B),
   mcd(A,B,M),
   write('El m.c.d. es : '),
   write(M),nl.

programa4:- write('Ingrese valor de  un numero: '),
   read(N),
   sumadigitos(N,S),
   write('La suma de digitos es :'),
   write(S),nl.
programa5:- write('Ingrese numero : '),
   read(N),
   reportereves(N),nl.
programa6:- write('Ingrese numero : '),
   read(N),
   reporteterminos(N).
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