ASSIGNMENT 6

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Question : Prolog program for GCD of two numbers.

CODE :

gcd(A,B,X):- A=0,X=B. % base case

gcd(A,B,X):- B=0,X=A. % base case

gcd(A,B,X):- A>B, gcd(B, A, X).

gcd(A,B,X):- A<B, T is B mod A, gcd(A, T, X).

Queries :

?- gcd(147,210,GCD).

GCD = 21 .

?- gcd(16,24,GCD).

GCD = 8 .

?- gcd(240,24,G).

G = 24 .

?- gcd(512,8,G).

G = 8 .

?- gcd(24,16,8).

true

SCREENSHOT :

