#include <iostream>

using namespace std;

int gcd(int a, int b){

if(a==0){

return b;

}

if(b==0){

return a;

}

while(a!=b){

if(a>b){

a=a-b;

}

if(b>a){

b=b-a;

}

}

return a;

}

int main() {

int a,b;

cout<<"enter the value of a and b"<<endl;

cin>> a >> b;

int ans= gcd(a,b);

cout<<"gcd of "<< a << "and "<< b<<endl;

cout<< ans << endl;

// Write C++ code here

return 0;}