10.GCD

#include <stdio.h>

#include<stdlib.h>

int gcd(int a, int b)

{

if (b == 0)

{

return a;

}

return gcd(b, a % b);

}

int main()

{

int num1, num2;

printf("Enter the first number: ");

scanf("%d", &num1);

printf("Enter the second number: ");

scanf("%d", &num2);

if (num1 < 0 || num2 < 0)

{

printf("Illegal input.\n");

} else

{

int result = gcd(num1, num2);

printf("The GCD of %d and %d is: %d\n", num1, num2, result);

}

return 0;

}

OUTPUT

