GCD:

GCD stands for Greatest Common Divisor. So GCD of 2 numbers is nothing but the largest number that divides both of them.

Example:
Lets say 2 numbers are 36 and 60. Then
36 = 2*2*3*3
60 = 2*2*3*5
GCD=2*2*3
i.e GCD=12

GCD is also known as HCF (Highest Common Factor)

Steps:

1. Start program

2. Take 2 numbers as input

3. Take a temporary variable and a variable for our answer

4. Assign 1 as the value of temporary variable

5. Check either temporary variable can be divided with our 2 numbers

6. If yes, then store the number as answer

7. increase the temporary variable by 1

8. if temporary variable is less than our two number then go to step 4

9. print the result

10. Exit program

Algorithm for Finding GCD of 2 numbers:

start

Declare variable n1, n2, gcd 1, i= 1

input n1 and n2

i<=n1 and i<=n2

—yes→

i<=n1 and i<=n2 —yes→ gcd = 1

no

no

i = i + 1

print gcd

End