

```

1:  /*-----GDC using Euclid's alg-----*/
2:
3:  #include<iostream>
4:  using namespace std;
5:
6:  int euclidGCD(int a, int b)
7:  {
8:      int gcd;
9:
10:     if(a == 0)
11:     {
12:         gcd = b;
13:     }
14:     else if(b == 0)
15:     {
16:         gcd = a;
17:     }
18:     else
19:     {
20:         if(a > b)
21:         {
22:             gcd = euclidGCD(b, a % b);
23:         }
24:         else
25:         {
26:             gcd = euclidGCD(a, b % a);
27:         }
28:     }
29:
30:     return gcd;
31: }
32:
33: int main()
34: {
35:     int n;
36:     int a, b;
37:     cout << "Enter two numbers: \n";
38:     cin >> a >> b;
39:
40:     int gcd = euclidGCD(a, b);
41:
42:     cout << "GCD of " << a << " & " << b << " is " << gcd;
43:     return 0;
44: }

```