

C (gcc 6.3)



Code gets autosaved every second



```
1 #include <stdio.h>
2 int main() {
3     int a, b, x, y, t, gcd, lcm;
4
5     printf("Enter two integers\n");
6     scanf("%d%d", &x, &y);
7
8     a = x;
9     b = y;
10
11     while (b != 0) {
12         t = b;
13         b = a % b;
14         a = t;
15     }
16
17     gcd = a;
18     lcm = (x*y)/gcd;
19
20     printf("Greatest common divisor of %d and %d = %d\n", x, y, gcd);
21     printf("Least common multiple of %d and %d = %d\n", x, y, lcm);
22
23     return 0;
24 }
```

23:1



Open File

✓ Custom Input

Run

Custom Input

4 2

**Status** Successfully executed **Date** 2020-06-03 13:05:21 **Time** 0 sec **Mem** 9.424 kB



**Input**

4 2

**Output**

Enter two integers  
Greatest common divisor of 4 and 2 = 2  
Least common multiple of 4 and 2 = 4

C program to find the HCF and LCM of two numbers

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Algorithm :

1. start
2. input  $x, y$
3.  $a = x;$
4.  $b = y;$
5. while ( $b \neq 0$ )  
{  
     $t = b;$   
     $b = a \% b;$   
     $a = t;$   
}
6.  $gcd = a;$
7.  $lcm = (x * y) / gcd;$
8. output  $gcd, lcm$
9. stop

Flowchart :

