

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

Enter two integers

Greatest common divisor of 10 and
24=2

least Common Multiple of 10 and
24=120

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C program to find HCF and LCM of two Numbers

Algorithm :-

Step 1:- Start

Step 2:- Input x, y

Step 3:- $a = x;$

Step 4:- $b = y;$

Step 5:- while ($b \neq 0$)

{

$t = b;$

$b = a \% b;$

$a = t;$

}

Step 6:- $gcd = a;$

Step 7 :- $lcm = (x * y) / gcd;$

Step 8:- output gcd, lcm

Step 9: Stop.

Flowchart:-

