S.No: 27	Exp. Name: ***Develop a C program which takes two numbers as command line arguments and finds all the common factors of those two numbers.***	Date:2023-04-02

Aim:

Develop a C program which takes two numbers as command line arguments and finds all the common factors of those two numbers.

Sample input output

```
Sample input output -1:

Cmd Args : 10 20
Common factors for 10 and 20 are: 1      2        5         10

Sample input output -2:

Cmd Args : 45 23
Common factors for 45 and 23 are: 1
```

Note: Do use the printf() function with a newline character (\n) at the end.

Source Code:

common_factors.c

```c
#include<stdio.h>
#include<stdlib.h>
int main(int argc,char*argv[])
{
    int a,b;
    int i, small;
    a=atoi(argv[1]);
    b=atoi(argv[2]);
    small=(a<b)?a:b;
printf("Common factors for %d and %d are: ",a,b);
for(i=1;i<=small;i++)
{
    if(a%i==0 && b%i==0)
    printf("%d\t",i);
}
printf("\n");
return 0;
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Common factors for 10 and 20 are: 1   2   5   10

Test Case - 2
User Output

```
Common factors for 18 and 39 are: 1       3
```