Aim:

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

Exp. Name: Develop a C program which takes two numbers as command line arguments

## 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.

and finds all the common factors of those two numbers.

## **Source Code:**

```
common_factors.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;</pre>
   printf("Common factors for %d and %d are: ",a,b);
   for(i=1;i<=small;i++)</pre>
      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 fac	tors for	10	and	20	are:	1	2	5	10	

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Test Case - 2 User Output Common factors for 18 and 39 are: 1 3