

Aim:

Develop an algorithm which computes the all the factors between 1 to 100 for a given number and implement it using C.

Sample input output**Sample input output -1:**

Enter a number: 23
Factors between 1 and 100 are: 1 23

Sample input output -2:

Enter a number: 234
Factors between 1 and 100 are: 1 2 3 6 9 13 18 26

Sample input output -3:

Enter a number: 5
Factors between 1 and 100 are: 1 5

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

Source Code:

factors100.c

```
#include<stdio.h>
int main()
{
    int n,i;
    printf("Enter a number: ");
    scanf("%d",&n);
    printf("Factors between 1 and 100 are: ");
    for(i=1;i<=100;i++)
    {
        if(n%i==0)
        {
            printf("%d\t",i);
        }
    }
    printf("\n");
}
```

Execution Results - All test cases have succeeded!

Test Case - 1									
User Output									
Enter a number: 45									
Factors between 1 and 100 are: 1 3 5 9 15 45									