S.No: 11	Exp. Name: *Develop an algorithm which computes the all the factors between 1 to 100 for a given number and implement it using C.*	Date:2023-04-01

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

```c
#include<stdio.h>
 main()
{
    int i,n;
    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");
    return 0;
}
```

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