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:2023-04-03

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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      39
```

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>
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