S.No: 12	Exp. Name: ***Write a C program to find all the Prime numbers between the given limits***	Date:2023-01-03

Aim:

Write a sample code to find all the `prime numbers` between the limits.

[**Hint:** A `prime number` is a positive integer greater than 1 and which is divisible by 1 and itself only. A few prime numbers are 2, 3, 5, 7, 11, 13, 17, 19, etc.]

At the time of execution, the program should print the message on the console as:

```
Enter lower and upper limits :
```

For example, if the user gives the **input** as:

```
Enter lower and upper limits : 10 20
```

then the program should **print** the result as:

```
Prime numbers between 10 and 20 are : 11  13  17  19
```

Note: Do use the **printf()** function with **spaces** before and after the conversional string.

Source Code:

Program12.c

```
#include<stdio.h>
int main()
{
   int l,u,i,j,count=0;
   printf("Enter lower and upper limits : ");
   scanf("%d%d",&l,&u);
   printf("Prime numbers between %d and %d are : ",l,u);
   for(i=l;i<=u;i++)
   {
      count=0;
      for(j=2;j<=i;j++)
      {
         if(i%j==0)
         count++;
      }
      if(count==1)
      {
      printf("%d ",i);
      }
   }

}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
`Enter lower and upper limits :  3 20`

Prime numbers between 3 and 20 are : 3 5 7 11 13 17 19

Test Case - 2
User Output
Enter lower and upper limits : 11 29
Prime numbers between 11 and 29 are : 11 13 17 19 23 29