limits

Sasi Institute of Technology and Engineering (Autonomous)

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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.]

Exp. Name: Write a C program to find all the Prime numbers between the given

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>
void main()
   int low,up,i,j,nof=0;
   printf("Enter lower and upper limits : ");
   scanf("%d%d",&low,&up);
   printf("Prime numbers between %d and %d are : ",low,up);
   for(i=low;i<=up;i++)</pre>
      nof=0;
      for(j=1;j<=i;j++)
         if(i\%j==0)
         {
             nof++;
         }
      }
      if(nof==2)
      printf("%d ",i);
   }
}
```

Execution Results - All test cases have succeeded!

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

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