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# Sasi Institute of Technology and Engineering (Autonomous)

# 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>
int main()
   int l,u,i,j,count=0;
   printf("Enter lower and upper limits : ");
   scanf("%d%d",&1,&u);
   printf("Prime numbers between %d and %d are : ", l,u);
   for(i=1;i<=u;i++)</pre>
      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	
ser Output	
nter lower and upper limits : 11 29	
rime numbers between 11 and 29 are : 11 13 17 19 23 29	