

```
In [15]: #Display prime number series up to given number
def prime(num):
    for i in range(2,num):
        if num%i==0:
            return False
    return True
number=int(input("Enter a number upto which the series of prime numbers to be displayed:"))
for i in range(2,number+1):
    if(prime(i)):
        print("\nThe given number ",i," is prime.")
    else:
        print("\nThe given number ",i," is not a prime.")
```

Enter a number upto which the series of prime numbers to be displayed:10

The given number 2 is prime.

The given number 3 is prime.

The given number 4 is not a prime.

The given number 5 is prime.

The given number 6 is not a prime.

The given number 7 is prime.

The given number 8 is not a prime.

The given number 9 is not a prime.

The given number 10 is not a prime.