

Prime Factorization

I/p: n = 100
O/p: 2 2 5 5
I/p: n = 13
O/p: 13
I/p: n = 15
O/p: 3 5

n = 100
i = 2: Divides and prime
 2 2
i = 3: Does not divide
i = 4: Not prime
i = 5: Divides and prime
 5 5
i = 6: Does not divide
.
.
.
.
till i = 100

```
def isPrime(x):  
    for i in range(2, x):  
        if x % i == 0:  
            return False  
    return True  
  
def printPFactor(n):  
    for i in range(2, n + 1):  
        if isPrime(i): # checking prime for i  
            x = i  
            while n % x == 0:  
                print(i)  
                x = x * i # next power of i  
  
n = int(input("Enter n:\n"))  
printPFactor(n)
```