

## Check for Prime

I/p: n = 13  
O/p: yes  
I/p: n = 14  
O/p: no  
I/p: n = 101  
O/p: yes

```
def isPrime(n):  
    if n == 1:  
        return False  
    for i in range(2, n):  
        if n % i == 0:  
            return False  
    return True  
  
n = 65  
print("true") if isPrime(n) else print("false")
```

### Efficient Approach

```
def isPrime(n):  
    if n == 1:  
        return False  
    i = 2  
    while (i * i <= n):  
        if n % i == 0:  
            return False  
        i += 1  
    return True  
  
n = 65  
print("true") if isPrime(n) else print("false")
```

### Super-Efficient Approach

```
def isPrime(n):  
    if n == 1:  
        return False  
    if n == 2 or n == 3:  
        return True  
    i = 5  
    while (i * i <= n):  
        if n % i == 0 or n % (i + 2) == 0:  
            return False  
        i += 6  
    return True  
  
n = 65  
print("true") if isPrime(n) else print("false")
```