

Computing Power(x, n)

I/p: $x = 2, n = 3$

O/p: 8

I/p: $x = 3, n = 4$

O/p: 81

I/p: $x = 5, n = 0$

O/p: 1

```
def power(x, n):  
    res = 1  
    for i in range(n):  
        res *= x  
    return res
```

Efficient Solution

```
def power(x, n):  
    if n == 0:  
        return 1  
    temp = power(x, n//2)  
    temp = temp * temp  
    if (n % 2 == 0):  
        return temp  
    else:  
        return temp * x
```