For(i=n; i>1; i=i/2)

{

Cout<<”Letsupgrade”; ……. O(1)

}

Values of i in each step= n ,n/2, n/4,……

= n/2^0 , n/2^1 , n/2^2

So k th term equal to n/2^(k-1),

And last term is 2 (for integer value of n), therefore, last term-

n/2^(k-1)=2 => k= logn

so, T(n)= O(logn)