Lets_upgrade Assignmnet Question

2)for(i =1; i <= n; i *=3){

```
1) for (i = 1; i <= n; i ++){
           for(j = i ; j < = n ; j++){
            pf("hii");
 }
  Time complexity : O(n^2)
  Explanation :
 here in the first loop i = 1 and i is less
  than n and increment is +1
 And in second loop j=i and less than n and
  increment of +1
 As the value of loop increase as the number will
  decrease .
 Therefore the time complexity for first loop is
  (n)
 And for the second loop it is (n-1)
 And then the time complexity for whole loop will
  be 0 (n^2)
```

```
for(j=1; j<=n; j++){
    pf("hello");
}

Time complexity : O(log n )

Explanation :

for the first loop the incrementation in i is i*3 and next element will be 1,3,9,27,.....
So it is log function
Therefore time complexity is O(log n)</pre>
```