# Assignment 1 | 9th March 2021

Q1. Find the time complexity of the following Pseudo Code

for( i = 1 ; i <= n ; i = i\*2)

for( j = 1 ; j <= i ; j++)

print(“Hello”)

Solution:

for( i = 1 ; i <= n ; i = i\*2) --------- O(logn)

for( j = 1 ; j <= i ; j++) ---------- O(n^2)

print(“Hello”)

T(n)=O(logn+n^2)

If n=i

T(n)=O(n^2)