Lab Assignment -1 2.a.) For the implementation 1, it tollows and a recursive approach and it produces a full binary tree with et each level containing 2 function calls. So, with larger value of input the number of function calls grows at an exponential rate of 2"- So, it its time complexity would be  $O(2^n)$ . On the other hand for implementation 2, it tollows an iterative approach where it creates an array and the loop runs for n-1 times. Hence it will give a linear time complexity which would be O(n).