## **Engineering Animuthyam**

## Java DSA – Course. Part - 48 Binary Search

## **Course Link:**

https://www.youtube.com/playlist?list=PLjzLBp9HHZWhVXBSPS1VqxXXDoVk07gd9

**Website Link:** 

https://www.vigneshreddyjulakanti.in/

Hello machas, Bagunnara

1283. Find the Smallest Divisor Given a Threshold

https://leetcode.com/problems/find-the-smallest-divisor-given-a-threshold/description/

round to upper bound on divide

5/2 = 3

**Math.pow(3,4)**;

(int)Math.pow(10,6);

```
class Solution {
    public boolean isPossible(int[] nums, int threshold,int k){
        for(int i = 0; i < nums.length; i++){</pre>
            int val = nums[i];
            int temp = val / k;
            if(val%k != 0){
                temp++;
            threshold-=temp;
            if(threshold < 0){</pre>
                return false;
            }
        return true;
    public int smallestDivisor(int[] nums, int threshold) {
        int 1 = 1;
        int r = (int)Math.pow(10,6);
        while(l<=r){
            int mid = 1 + (r-1)/2;
            if(isPossible(nums,threshold,mid)){
                r = mid - 1;
            }else{
                1 = mid + 1;
        return 1;
```