643. Maximum Average Subarray I

APPROCH -> SLIDING WINDOW;

- ->FIRST CALCULATE TEH SUM EQAUL TO FIRST WINDOW SO WE CAN SLIDE THE WINDOW;
- ->NOW RUN A LOOP TILL ARRAY SIZE;
- -> CALCULAT TEH SIZE OF WINDOW IF IT IN RANGE CALULATE AND UPDATE MAXI;
- -> AFTER THE LOOP COMPLETETD RETURN THR MAXI AVG VARIABLE;

```
class Solution {
    double findMaxAverage(vector<int>& nums, int k) {
        double maxi=INT_MIN;
        double sum=0;
        for(int i=0;i<k;i++){</pre>
             sum+=nums[i];
        maxi=max(sum,maxi);
        for(int i=1;i<nums.size();i++){</pre>
             int end=(i+k)-1;
             if(end<nums.size()){</pre>
                 sum-=nums[i-1];
                 sum+=nums[end];
                 maxi=max(sum,maxi);
        double avg=maxi/k;
        return avg;
};
```