Engineering Animuthyam Java DSA – Course Part -14 Leetcode problems Bubble Sort, Arrays sort

Course Link:

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

Website Link:

https://www.vigneshreddyjulakanti.in/

Hello machas, Bagunnara.

Swapping

```
Arr ={ 2,5};
Converted to
Arr = {5,2};
Int temp= arr[0];
arr[0]=arr[1];
arr[1] = temp;
```

Bubble Sort

General Bubble Sort

```
class HelloWorld {
    public static void main(String[] args) {
        int arr[]={ 7, 1, 5, 3, 6,10};
        int n=arr.length;
        for(int i=0;i<n-1;i++){</pre>
            for(int j=0;j<n-i-1;j++){</pre>
                 if(arr[j]>arr[j+1]){
                     int temp = arr[j];
                     arr[j]=arr[j+1];
                     arr[j+1]=temp;
                 }
            }
        }
        for(int i=0;i<n;i++){</pre>
            System.out.print(arr[i]+" ");
        }
```

Optimised Bubble Sort

```
class HelloWorld {
    public static void main(String[] args) {
        int arr[]={ 7, 1, 5, 3, 6, 10};
        int n=arr.length;
        for(int i=0;i<n-1;i++){
            boolean swapped = false;
            for(int j=0;j<n-i-1;j++){</pre>
                 if(arr[j]>arr[j+1]){
                     int temp = arr[j];
                     arr[j]=arr[j+1];
                     arr[j+1]=temp;
                     swapped = true;
                 }
            if(swapped == false){
                 break;
            }
        for(int i=0;i<n;i++){</pre>
            System.out.print(arr[i]+" ");
        }
    }
```

Arrays.sort() in java		
O(nlogn) time commplexity.		