* Sorting techniques

1. Bubble Sort

- It is the simple sorting algorithm techniques
- In this techniques, we continually compare two adjacent items from the list. If the first element is larger than the second one the position of the elements are interchanged (swap) otherwise it is not changed and then after sorting is completed. This process is used frequently until no swaps are needed.
- Then next item is compared with its adjacent element and the same process is repeated for all the elements in my the array until we get sorted array.
- From it's name "bubble", smallest elements at the top of the list and largest elements at the bottom of the list.
- It is also known as comparison sort because it continually compares two adjacent elements from the list.

* ALGORITHM

Step 1 : Input n numbers of an array A

Step 2 : Initialize i=0 and repeat through step 4 if (i<n)

Step 3 : Initialize j=0 and repeat through step4 if (j<n-i-1)

Step4 : IF (A[j] > A[j+1])

a swap = A[j]
b A[j] = A[j+1]
c A[j+1] = swap

Step 5 : Display the sorted numbet of array A

Step 6 : Exit

4 bubble sort

* Code

```
for(int i=0; i<n; i++){
    for(int j=0; j<n-i-1; j++){
        if(arr[j] > arr[j+1]){
            int temp = arr[j];
            arr[j] = arr[j+1];
            arr[j+1] = temp;
                                }
                                }
                            }
```

* explain

- n is size of array
- arr is variable name
- if first element biggert then second element then there position will be chenge
- This process work until array is sorted.