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| **Program No**: **10 Date:20/07/2021**  **BUBBLE SORT**  **AIM :** To write a program to sort the given numbers using bubble sort.  **ALGORITHM:**    1.Start  2. Get the number of numbers(size) from the user  3. Get the numbers or elements according to the size .  4. Print entered number  5.Starting with the first element , compare the current number with the next  Number in the given numbers  6. If the current number is greater than the next number , swap them  7. If the current number is less than next number , move to next number and  Repeat from step 4.  8. Print the sorted numbers  9. Stop  **PROGRAM:**   |  | | --- | | **/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***  **Title: Bubble Sort**  **Done by : Deepak M S**  **Date: 20/07/2021**  **Aim: To write a program to sort the given numbers using bubble sort.**  **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/**  **#include <stdio.h>**  **int main()**  **{**  **//variable declaration and initialization**  **int array[50]; //for storing the numbers**  **int i,j,size,temp;**    **//get the size**  **printf("Enter the size of numbers:");**  **scanf("%d",&size);**    **//get the numbers**  **printf("\nEnter the numbers:");**  **for(i=0;i<size;i++){**  **scanf("%d",&array[i]);**  **}**    **//print the numbers**  **printf("\nNumbers are:");**  **for(i=0;i<size;i++){**  **printf("\t%d",array[i]);**  **}**    **//sort the numbers**  **for(i=0;i<size-1;i++){**  **for(j=i+1;j<size;j++){**  **//check the current number is greater than next number**  **if(array[i]>array[j]){**  **//swap the number**  **temp = array[i];**  **array[i] = array[j];**  **array[j] = temp;**    **}**  **}**  **}**  **//print the numbers**  **printf("\nNumbers after sorting:");**  **for(i=0;i<size;i++){**  **printf("\t%d",array[i]);**  **}**    **return 0;**  **}** |   **SAMPLE OUTPUT:**    **RESULT:**  Program run successfully and able to get the correct output |