```c
//program for bubble sort
#include<stdio.h>
void main()
{
    int list[25],i,j,swap,num,t;
    printf("How many elements in the list:"); scanf("%d",&num);
    for(i=0;i<num;i++)
    {
        printf("Element[%d]:",i+1);
        scanf("%d",&list[i]);
    }
    for(i=0;i<num-1;i++)
    {
        swap=0;
        for(j=0;j<num-1;j++)
        {
            if(list[j]>list[j+1])
            {
                swap=1;
                t=list[j];
                list[j]=list[j+1];
                list[j+1]=t;
            }
        }
        if(!swap)
        break;
    }

    printf("Sorted in %d iterations\n",i);
    printf("The sorted list:\n");
    for(i=0;i<num;i++)
        printf("Element[%d]:%d\n",i+1,list[i]);
}
```
output
spsingh@DESKTOP-N24FSAP:~/cprg$ a.out
How many elements in the list:5
Element[1]:44
Element[2]:22
Element[3]:6
Element[4]:5
Element[5]:1
Sorted in 4 iterations
The sorted list:
Element[1]:1
Element[2]:5
Element[3]:6
Element[4]:22
Element[5]:44

spsingh@DESKTOP-N24FSAP:~/cprg$ a.out
How many elements in the list:5
Element[1]:44
Element[2]:1
Element[3]:22
Element[4]:5
Element[5]:6
Sorted in 2 iterations
The sorted list:
Element[1]:1
Element[2]:5
Element[3]:6
Element[4]:22
Element[5]:44