

BUBBLE SORT

```
#include <stdio.h>

void bubble_sort(long [], long);

int main()
{
    long array[100], n, i;

    printf("Enter number of elements:\n");
    scanf("%ld", &n);

    printf("Enter %ld integers:\n", n);

    for (i = 0; i < n; i++)
        scanf("%ld", &array[i]);

    bubble_sort(array, n);

    printf("Sorted list in ascending order:\n");

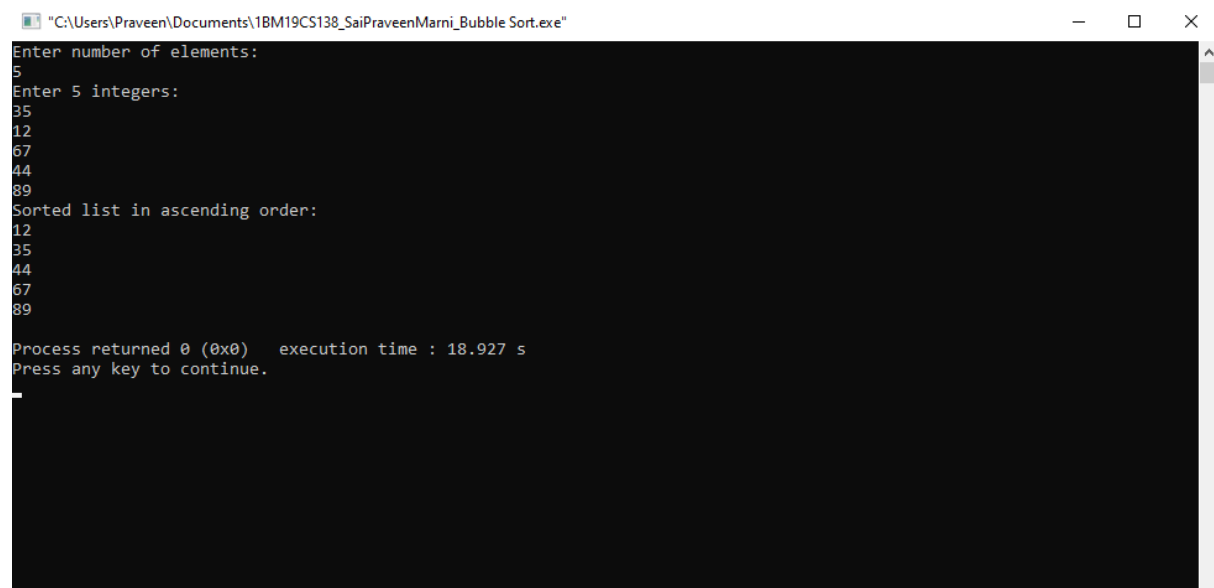
    for (i = 0; i < n; i++)
        printf("%ld\n", array[i]);

    return 0;
}

void bubble_sort(long list[], long n)
{
    long i, j, t;
```

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

OUTPUT:



The screenshot shows a Windows command prompt window titled "C:\Users\Praveen\Documents\18M19CS138_SaiPraveenMarni_Bubble Sort.exe". The program prompts the user to enter the number of elements (5) and then 5 integers (35, 12, 67, 44, 89). It then displays the sorted list in ascending order (12, 35, 44, 67, 89). The process returned 0 (0x0) and the execution time was 18.927 s. The prompt asks to press any key to continue.

```
"C:\Users\Praveen\Documents\18M19CS138_SaiPraveenMarni_Bubble Sort.exe"  
Enter number of elements:  
5  
Enter 5 integers:  
35  
12  
67  
44  
89  
Sorted list in ascending order:  
12  
35  
44  
67  
89  
Process returned 0 (0x0)   execution time : 18.927 s  
Press any key to continue.  
^
```