

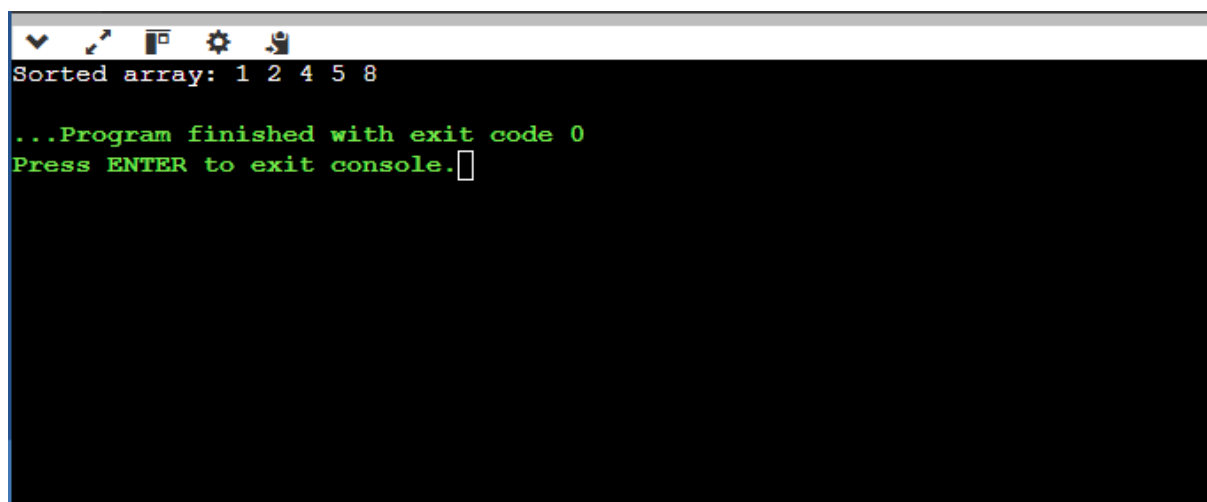
## Bubble sort:

Code:



```
1  #include <stdio.h>
2
3  int main() {
4      int a[] = {5, 1, 4, 2, 8};
5      int n = 5, temp;
6
7      for(int i = 0; i < n - 1; i++) {
8          for(int j = 0; j < n - i - 1; j++) {
9              if(a[j] > a[j + 1]) {
10                 temp = a[j];
11                 a[j] = a[j + 1];
12                 a[j + 1] = temp;
13             }
14         }
15     }
16
17     printf("Sorted array: ");
18     for(int i = 0; i < n; i++)
19         printf("%d ", a[i]);
20
21     return 0;
22 }
23
```

Output:



```
Sorted array: 1 2 4 5 8

...Program finished with exit code 0
Press ENTER to exit console.
```