PRACTICAL-10

1.Implement bubble sort .

Code: #include <stdio.h>

```c
int main()
{
 int array[100], n, c, d, swap;

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

 printf("Enter %d integers\n", n);

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

 for (c = 0 ; c < n - 1; c++)
 {
 for (d = 0 ; d < n - c - 1; d++)
 {
 if (array[d] > array[d+1])
```

```c
        {

            swap = array[d];
            array[d] = array[d+1];
array[d+1] = swap;
            }
            }
            }

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

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

    return 0;
    }
```
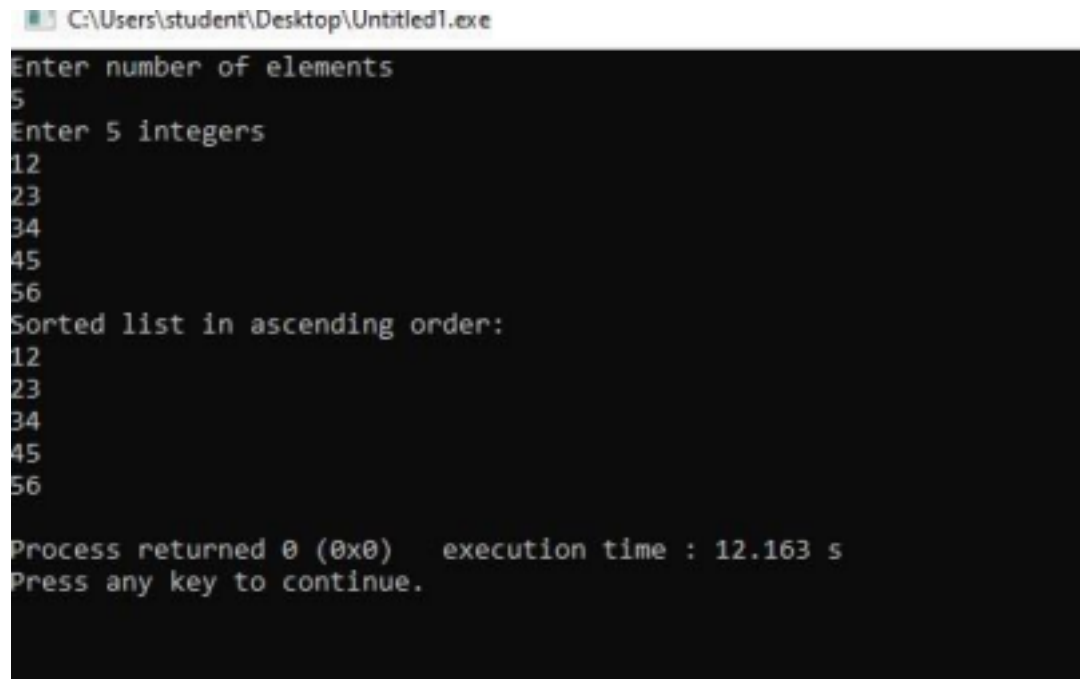
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Output:

```
Enter number of elements
5
Enter 5 integers
12
23
34
45
56
Sorted list in ascending order:
12
23
34
45
56

Process returned 0 (0x0)   execution time : 12.163 s
Press any key to continue.
```