

# Introduction to C programming

by Coding-Bootcamps.com

## project 5

### C Program to arrange numbers in ascending order

The following program prompts the user for the n numbers, once the user is done entering those numbers, this program sorts and displays them in ascending order. Here we have created a user defined function `sort_numbers_ascending()` for the sorting purpose.

```
/*
 * C program to accept numbers as an input from user
 * and to sort them in ascending order.
 */
#include <stdio.h>

void sort_numbers_ascending(int number[], int count)
{
    int temp, i, j, k;
    for (j = 0; j < count; ++j)
    {
        for (k = j + 1; k < count; ++k)
        {
            if (number[j] > number[k])
            {
                temp = number[j];
                number[j] = number[k];
                number[k] = temp;
            }
        }
    }
    printf("Numbers in ascending order:\n");
    for (i = 0; i < count; ++i)
        printf("%d\n", number[i]);
}

void main()
{
    int i, count, number[20];
```

```
printf("How many numbers you are gonna enter:");  
scanf("%d", &count);  
printf("\nEnter the numbers one by one:");  
  
for (i = 0; i < count; ++i)  
    scanf("%d", &number[i]);  
  
sort_numbers_ascending(number, count);  
}
```