Simple programs in C QR_COD_08

Create a simple program in the C programming language that corresponds to the information below

Use the same gitHub repository as in the previous work order (e.g. Musterperson_QR_COD

Create a folder for each program in your repository - e.g.
Sampleperson_QR_COD_Program_1.

Be sure to use the Microsoft Visual Studio development environment

Please use the previously created project folder with the name YourName_QR_COD for all programs of this work order.

For each subtask, create a separate project in the project folder with the name
YourName_QR_COD_X, where x is the number of the respective task)

Managing a simple shopping list

Create a C program that manages a simple shopping list. The program should be able to store and display items. Each item has only a name and a quantity.

Requirements:

Using arrays:

Use two arrays to store the item names and their quantities:

char articleNames [20] [50]': An array that can store up to 20 article names. Each article name can be up to 50 characters long.

int article quantities [20]`: An array that stores the respective quantity of articles.

Collect data:

Create a function 'Add Item' that captures a new item and stores the name and quantity in the arrays.

The program should be able to store a maximum of 20 articles.

Show article:

Create a function `DisplayItems` that displays all stored items with their names and quantities on the screen.

Menu and interaction:

Create a simple menu system that gives the user the following options offers:

1. Add article

2. Show all articles

3. Exit the program

Notes:

Use simple arrays to store the item data.

Add simple checks to ensure that the inputs are valid (e.g. no empty names and positive quantities).

Structure the code cleanly and understandably.

Supporting links:
- www.w3schools.com
- www.c-howto.de

Diploma:
Upload your created file to the repository.

5 teaching units

Evaluation:

Submission and peer feedback from participants and trainers