

Name: \_\_\_\_\_

Date of demonstration: \_\_\_\_\_

Marks earned: /5

LAB 7 (Due by 10 AM on November 11)

Maximum Points: 5, Weight: 5%

To complete the lab, please follow the instructions below. Not following these instructions may result in deduction of marks.

1. To receive any credit, you need to:
  - a. Demonstrate your work during the week 11 lab; **Please print this handout, write your name and date of demonstration, and bring the printout with you for demonstration;**
  - b. Upload your work to eConestoga as instructed in step 2 by the deadline.
2. Once you complete this lab, add weekly status report to the Visual Studio solution folder. Compress the entire solution folder to create a file with “.zip” extension. Upload the “zip” file to the appropriate assignment folder on eConestoga. You will not receive any credit if you fail to upload this file, even if you have finished and demonstrated your work. No credit is awarded without demonstration.
3. At the top of each C file, add your name and date of program creation.
4. Any variables or functions you create must be named following “camelCase” notation. Variables must be initialized before use. In case of multiple variables, define only one variable per line.
5. Program the following in one C file:
  - a. [4 points] Create a function with the following prototype:

```
char arrayValue(const char* array, int offset, int length);
```

This function returns the value of the array element indicated by the offset. This function must not print any value to the console. This function must not use array notation ([]) to access any array element. For example, this function may not use array[1] to access the second element.

In the main function, create and initialize a char array of 5 elements. Prompt the user for an integer index and call the arrayValue function to get the element at the index. Print the element's value from main function. Keep asking the user for the integer index until the user enters -1. If the user enters -1, stop asking the user for more values.

- b. [1 point] Create another function with the prototype `void printString(char* array);` This function prints the values of passed array by printing each character separately. This function does not print the entire string directly (for example, do not use puts). You must use printf with “%c” to print each character separately. From the main function, prompt the user to enter their name. Use the printString function you created to print the name.

Please be prepared to answer any questions during the demo. You are expected to correctly understand your programs. Any lack of understanding may result in deduction of points.