**CMSC140 Programming Classwork/Homework**

**1. Develop**  a program using loops to display the following patterns :

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(ii)

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(iii)

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Name your file FirstInitialLastName\_CW\_5\_Part1. cpp

**Submit:**

C++ file (source code): FirstInitialLastName\_CW\_4\_Part1. cpp

Screenshot of output in Word Document - use your name, CRN, a semester in the file name, and also in the Word document.

**Example output:**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Text

Description automatically generated

Text

Description automatically generated

**2. Develop** a program that asks for the user's name, phone number, and address. The program then saves all information in a data file (each information in one line) named **list.txt**. Finally, the program reads the information from the file and displays it on the screen  in the following format:  
  
  
Name:                  User's Name    
Phone Number: User's Phone Number    
Address:             User's Street Address   
                             User's City, State, and Zip Code

**Example output:**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Text

Description automatically generated

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**Submit:**

* + C++ source file LastNameFirstName\_CW\_5\_Part1.cpp file
  + C++ source file LastNameFirstName\_CW\_5\_Part2.cpp file
  + Screenshots of output for each program in Word Document - use your name, CRN, semester in the file name and also in the Word document.

**Grading Rubric:**

|  |  |
| --- | --- |
| Grading Criteria | 100 Points |
| 1. File format requirements | 5 |
| 1. Word Document with following requirements listed below:    1. Algorithm/Pseudocode. (-10)    2. Screen prints of program run. (-10) | 20 |
| 1. Submit LastNameFirstName\_CW\_5-Part1.cpp file    1. Program passes sample data tests.  (-10)    2. Program passes instructor data tests. (-10)    3. Quality of detailed steps and screenshots as per requirements listed above. (-5)    4. Incorrect use of indentation, naming convention, etc. (-5)    5. Not meet input requirement(s)/Took input incorrectly  (-5)    6. Not display or produce all required output. (-5)    7. Not meet output requirements. (-10)    8. Not use required control structure(s), operator(s) or statement(s). (-10)    9. Not use variables, constants, and literals (-3)    10. Not declare and initialize all required data items (-3)    11. Not use output manipulator: setprecision, fixed, etc. (-4) | 35 |
| 1. Submit LastNameFirstName\_CW\_5-Part2.cpp file    1. Program passes sample data tests.  (-10)    2. Program passes instructor data tests. (-10)    3. Quality of detailed steps and screenshots as per requirements listed above. (-5)    4. Incorrect use of indentation, naming convention, etc. (-5)    5. Not meet input requirement(s)/Took input incorrectly  (-5)    6. Not display or produce all required output. (-5)    7. Not meet output requirements. (-10)    8. Not use required control structure(s), operator(s) or statement(s). (-10)    9. Not use variables, constants, and literals (-3)    10. Not declare and initialize all required data items (-3) 2. Not use output manipulator: setprecision, fixed, etc. (-4) | 35 |
| 5.  Submitted the deliverables as per the due dates specified in the course schedule. | 5 |
|  | 100 |

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Header to include in source code:

 \* Class: CMSC140 CRN

 \* Instructor:

 \* Classwork/Homework/<1>

 \* Description:

 \* Due Date:

 \* I pledge that I have completed the programming assignment independently.

   I have not copied the code from a student or any source.

   I have not given my code to any student.

   Print your Name here:

   \* Pseudocode or Algorithm for the program:

                (be sure to indent items with control structure)

                (need to match flow chart submitted in documentation)

  1.Declare a variable visitorName.

  2.Receive the input visitorName.

  3.Declare a variable num, and receive the input and store the data num.

  4.Caculate years, months, days, hours, minutes, seconds, human age, dog age and fish age.

  5.Declare variables num1 and num2.

  6.receive the input and store the data num1 and num2.

  7.using operator "+,/" to calculate, and using cast expression to convert double.

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