Programming in C++ – Week #4 Assignment

# What's in a Number

**Directions**

You are to write a C++ program that meets the instruction requirements below. Use the assignment template to insert the assignment deliverables outlined below.

**Deliverables**

- A description of your program.

- Your C++ source code (do not submit screen shots).

- A screenshot of your program running.

- A short reflection outlining your experience developing the program.

Use this assignment template to insert the assignment deliverables outlined above:
Assignment Template

**Program Instructions**

To make telephone numbers easier to remember, some companies use letters to show their telephone number. For example, using letters, the telephone number 438-5626 can be shown as GET LOAN. In some cases, to make a telephone number meaningful, companies might use more than seven letters. For example, 225-5466 can be displayed as CALL HOME, which uses eight letters.

Write a program that

1. Prompts the user to enter a telephone number expressed in letters and outputs the corresponding telephone number in digits.
2. If the user enters more than seven letters, then process only the first seven letters. Also output the – (hyphen) after the third digit.
3. Allow the user to use both uppercase and lowercase letters as well as spaces between words.
4. Your program should process as many telephone numbers as the user wants.

**Assignment Rubric**

| Grading Criteria Assignments | Maximum Points |
|---|---|
| A description of the program was not submitted, A screenshot of the program execution was not submitted, A copy of the program code was not submitted, or A reflection of your programming experience was not submitted. | 1 |
| Program accomplishes requested operations per instructions | 40 |
| The code works and meets all assignment specifications | 30 |
| The code is organized and easy to follow and output is clear and clean | 20 |
| Uses software tools correctly and efficiently | 10 |
| **Total** | **100** |