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CPT187 – C02

Chapter 8 - Program 5

# **REQUIREMENTS**

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| **Date Submitted:** | 2/19/2023 |
| **Application Title:** | Telephone Number Translator |
| **Purpose:** | The program will take in a question from the user and display a randomized response from a list. |
| **Program Procedures:** | First, start the program. When prompted, type in a question. |
| **Algorithms, Processing, and Conditions:** | 1. Program calls main() function. 2. Function calls validate\_number() function. 3. Function accepts input from user 4. Function determines if input is correct length and contains correct characters 5. Function returns number to main() 6. Main() function calls num\_trans() function 7. Function compares each character in number to two-dimensional alphanumeric mapping list 8. Function prints number |
| **Notes and Restrictions:** | User must enter phone number in xxx-xxx-xxxx format. Number must not be more than 12 characters. May not contain any special characters other than the dash. |
| **Comments:** |  |

# **USE CASE**

1. User starts the program
2. User is prompted to enter phone number.
3. Program translates any letters to numbers.
4. Program prints translated number.