

*Your submission for this assignment **must include your full name** and your nine-digit **student number as a comment** at the top of the **source file you submit**. All source code files must be written using the **Python 3 programming language** and must run on the course's **official virtual machine**.*

***Submissions that crash** (i.e., terminate with an error) on execution will **receive a mark of 0**.*

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*Officially, the Due Date for this Assignment is:*

***Friday, November 19<sup>th</sup>, 2021, at 11:59pm EST.***

*Late Submissions are **Accepted Without Penalty Until Sunday, November 21<sup>st</sup>**, by 11:59pm EST.  
Submissions received after that will not be accepted and will receive a mark of 0.*

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*Internet slang has entered (relatively) widespread usage, evolving from its roots as an obfuscation technique into a form of communication used principally to express dissatisfaction with the performance of a teammate or to caption photographs of domesticated animals. For this assignment, you will design and implement a program that translates from English to 1337 (i.e., leetspeak). You will need to use functions to accomplish this, and if you are not familiar with the 1337 "language", you must read more at <https://en.wikipedia.org/wiki/Leet>.*

In order to complete this task, you will need to:

- research (and select) some internet slang acronyms (e.g., BTW, LOL, OMG, FYI, AFAIK, etc.)
- research (and select) some homoglyphs (e.g., the use of "|"|" for 'H', "|3" for 'B', etc.)

Your submission for this assignment:

- must be a source code file with filename **'comp1405\_f21\_#####\_assignment\_09.py'**
- must include a main function that prompts the user for a string and removes all punctuation
- must include a function to replace lowercase letters with uppercase using `ord()` and `chr()`
- must include a function to replace at least four different words or phrases with acronyms<sup>1</sup>
- must include a function to replace at least four different letters with homoglyphs<sup>2</sup>
- must have the main function call those described above, printing the return value of each
- must not use any built-in<sup>3</sup> `find`, `replace`, `encode`, or `translate` functions to perform replacement
- may use indexing (i.e., `[ ]`), slicing (i.e., `:`), and the `"in"` operator, and the `len()` function

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<sup>1</sup> This function should have one string argument, one string return, and replace things like "BY THE WAY" with "BTW".

<sup>2</sup> This function should have one string argument, one string return, and replace things like 'K' with '<' or 'A' with '@'.

<sup>3</sup> You are, however, encouraged to write your own versions of these functions as needed.