

## **Exercises with String Manipulation – Unit 1.2**

These exercises focus on some simple String Manipulation.

- Concatenation (+)
- Multiplication (\*)
- Slices
- Escape sequences
- len()
- String Methods
  - upper
  - lower
  - find
  - replace
  - count

### **Create Python programs to do the following:**

1. Get the user's full name as one line of input and display the name as last, first
2. Ask the user for a word and display a new version where the first and last characters are swapped.  
(e.g. massey → yassem)
3. Get a file name from the user and display just the extension. (e.g. windsor.docx → docx)
4. Ask for a word and display it so that the first half is lowercase and the second half is uppercase. For odd lengths, let the “second half” start at  $\text{len}(s)/2$ .
5. Ask the user to enter a string and a field width. Display the string right-aligned within that field, filling the left side with dots (.). You may assume that the field size is larger than the length of the string.  
(e.g. Canada 10 → ....Canada)
6. Get a string from the user and a field size then display the string centered within that field, with dots “.” on either side. You may assume that the field size is larger than the length of the string.
7. Get a sentence from the user and display it back with one word per line.
8. Get a number from the user (n) and create an  $n \times n$  box of "X"es on the screen. e.g. If they entered 9:  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX  
XXXXXX