Predict what the operations below will do.

+	Concatenation	a + b gives
*	Repetition	a * 3 gives
[]	Slice	b[1] gives
[:]	Range Slice	a[:2] + b[5:] gives
=	Assignment	<b>c = b</b> gives c = and c is separate from b.
+=	Assignment & concatenation	c += 'Boy' gives c as
in	Membership	'p' in a gives True (or 1) (t' in a gives? (q' in a gives False (or 0)

Read, Write and then Modify the Code below.

For example, change some of strings or variables names.

# Length of a String (Len)

A very useful function in programming is finding the Length of a string. Try the code below.

```
# 3 successively longer strings
str1 = "Hello"
str2 = "Hello Goodbye"
str3 = "Hello Goodbye Slán"

# Find the length of each string
lenStr1 = len(str1)
lenStr2 = len(str2)
lenStr3 = len(str3)

#print the lengths
print(str1 + "\t"*3 + "Length = " , lenStr1)
print(str2 + "\t"*2 + "Length = " , lenStr2)
print(str3 + "\t" + "Length = " , lenStr3)
```

## **Outline some of your modifications**

#### Read, Write and then Modify the Code below.

```
# Program to output the sum and multiplication of any two numbers
userName = input("Please enter your name \t : ")
userNumberl = int(input("Please enter your first number \t :"))
```

## What line of code could be behind me?

sumNum = userNumber1 + userNumber2

### What line of code is behind me?

## What line of code could be behind me?

```
print(sumStr)
productStr = "The product is " + str(productNum) + "\n"
print(productStr)
```

### **Some reflection thoughts**

What were the main challenges in developing a logically correct program? (LOs 1.4 and 2.20)

Did you encounter any difficulties with data types? (LOs 2.16 and 1.23)

NOTES to YOURSELF		