Working With Strings

A **string** is a series of alphanumeric characters which are treated as a single unit. Strings can be manipulated (worked with) in a number of ways. Complete the examples and record the output.

1. **Concatenation** - two or more strings can be joined together

- 2. **Substrings** a portion of a string is known as a **substring**
 - these substrings can be manipulated or outputted
 - each letter in the string has a specific position called an **index**. The first index is 0, the second is 1, the third is 2, etc.

```
word = "hello there"
print (word [0] )
                             h
print (word [1] )
                             e
print (word [5] )
                               (space)
print (word [-1] )
                                    [-1] is the last character
print (word [0: 3] )hel
print (word [6 : -1] )
                             ther
print (word [-3 : -1] )
                             er
print (word [ 2 : 4 ] )
                             ll
print (word [ : 2] ) he
                             The blank before the colon (:) is the first character
print (word [2:]) llo there The blank after the colon (:) is the last character
smallWord = word [2:4]
                             ll
print (smallWord)
```

Note:

When you see a substring [a:b] where a and b are two integers, the substring goes from character a to the character a