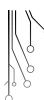


STRING METHODS

COMP130 - INTRODUCTION TO COMPUTING DICKINSON COLLEGE



PYTHON STRINGS ARE OBJECTS



- An object represents a thing in a program that has state and methods.
 - An object's state is the collection of internal variables and values that represent the object.
 - An **object's methods** are functions that operate on the state of the object.
 - A constructor is a special method that creates a new object and initializes its state.
 - Instance Methods (usually just called methods) are functions that operate on a specified object (i.e. use or manipulate its state.)



PYTHON'S STRING OBJECT

- The String Object:
 - State: The characters in the string are the state.
 - Operations:
 - Constructor: s = str('Hello World!') Typically not used. s = 'Hello World!' Equivalent shortcut!
 - (some) Methods:
 - Searching: find(s), endswith(s), startswith(s), replace(s1,s2)
 - isalnum(), isalpha(), isdecimal()
 - Conversion: lower(), upper(), strip(), lstrip(), rstrip()
 - See links on course page for all methods and full documentation.



THE IN OPERATOR

- The in operator searches for one string within another.
 - str1 in str2
 - True if str1 appears in str2, False otherwise.

```
print('x' in 'xylophone')
print('phone' in 'xylophone') ---> True
```

