Examples of String Operations: Screen grabs from idle session

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Python 2.7.10 Shell
Python 2.7.10 (default, Jul 14 2015, 19:46:27)
[GCC 4.2.1 Compatible Apple LLVM 6.0 (clang-600.0.39)] on darwin
Type "copyright", "credits" or "license()" for more information. >>> WARNING: The version of Tcl/Tk (8.5.9) in use may be unstable.
Visit http://www.python.org/download/mac/tcltk/ for current information.
>>> nickname1 = "peanuts"
>>> nickname2 = 'bergerbits'
>>> allmynames = """
peanuts
bergerbits
skoshiwosh
zanv
>>> allmynames
'\npeanuts\nbergerbits\nskoshiwosh\nzany\n'
>>> print(allmynames)
peanuts
bergerbits
skoshiwosh
zany
>>> nickname1
'peanuts'
>>> nickname2
'bergerbits'
>>> # you can add strings together like numbers
>>> nickname1 + ' ' + nickname2
'peanuts bergerbits'
>>> # but preferable to use % or format for strings
>>> "My nicknames are %s and %s" % (nickname1, nickname2)
'My nicknames are peanuts and bergerbits'
>>> # above could be contained in print function
>>> print("My nicknames are %s and %s" % (nickname1, nickname2))
My nicknames are peanuts and bergerbits
>>> # use 'r' for raw string: good if escape character in string
>>> foobar = r'foo\noo'
>>> foobar
'foo\\noo'
>>> # raw strings good for Windows file paths due to backslash in Windows path
>>> # new style string format
>>> print("My nicknames are {0} and {1}".format(nickname1, nickname2))
My nicknames are peanuts and bergerbits
>>> nickname1[0]
```

'p'

's'

'nu'

'pau'

>>> nickname1[-1]

>>> nickname[3:5]

nickname[3:5]

>>> nickname1[0:-1:2]

>>> nickname1[3:5]

Traceback (most recent call last):

File "<pyshell#28>", line 1, in <module>

NameError: name 'nickname' is not defined

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. .
```

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>>> # strings are immutable so you can't do this:
>>> nickname1[4] = 'x'
Traceback (most recent call last):
 File "<pyshell#32>", line 1, in <module>
   nickname1[4] = 'x'
TypeError: 'str' object does not support item assignment
>>> # to change a string variable you have to re-assign it
>>> nickname3 = nickname1[0:4] + 'x' + nickname1[4:]
>>> nickname3
'peanxuts'
>>> # here are some common string methods
>>> # note that results must be re-assigned to string variable
>>> nickname1.upper()
'PEANUTS
>>> nickname1.capitalize()
'Peanuts'
>>> nickname3.index('x')
>>> nickname3.index('y')
Traceback (most recent call last):
  File "<pyshell#41>", line 1, in <module>
    nickname3.index('y')
ValueError: substring not found
>>> nickname3.find('y')
>>> nickname3.find('x')
>>> if nickname3.find('x') >= 0:
        print("found")
found
>>> foobar = " foobar "
>>> foobar.strip()
'foobar'
>>> foobar = "*foobar*"
>>> foobar.strip('*')
'foobar'
>>> foobar.rstrip('*')
'*foobar'
>>> all_names = "{} {} {} skoshiwosh zany".format(nickname1, nickname2, nickname3)
>>> all names
'peanuts bergerbits peanxuts skoshiwosh zany'
>>> name list = all names.split()
>>> name list
['peanuts', 'bergerbits', 'peanxuts', 'skoshiwosh', 'zany']
>>> new all names = '***'.join(name list)
>>> new all names
'peanuts***bergerbits***peanxuts***skoshiwosh***zany'
>>> new all names.startswith('p')
>>> new all names.isdigit()
False
>>> new all names.isalpha()
>>> nickname1.isalpha()
True
```