

String Methods

REVIEW:	Output	
str(3.14)	"0"	Converts a numeric value into a string.
int("3")	3	Converts a string into a integer.
float("3.14")	3.14	Converts a string into a float

REMINDER: STRINGS are text enclosed in “quotes”

Save As: string_methods.py

```
phrase = “Giraffe Academy”  
print(phrase)
```

OUTPUT:

Giraffe Academy

REMINDER: STRINGS on a new line (**\n** character)

```
phrase = "Giraffe\nAcademy"  
print(phrase)
```

OUTPUT:

Giraffe

Academy

REMINDER: Concatenating STRINGS use +

```
phrase = "Giraffe Academy"  
print(phrase + " is cool")
```

OUTPUT:

Giraffe Academy is cool

Common STRING METHODS

Method	phrase = "Giraffe Academy"	OUTPUT
lower()	<code>print(phrase.lower())</code>	giraffe academy
upper()	<code>print(phrase.upper())</code>	GIRAFFE ACADEMY
isupper()	<code>print(phrase.isupper())</code>	Checks to see if the string is uppercase, then returns a True or False .
	<code>print(phrase.upper().isupper())</code>	Combines 2 methods. First converts to uppercase, then checks to see if string is uppercase. Returns True or False
len()	<code>print(len(phrase))</code>	Returns the length of the string.

phrase =	G	i	r	a	f	f	e		A	c	a	d	e	m	y
[index] or position	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14

To Access STRING ELEMENTS – use their (index or position)

phrase = "Giraffe Academy"

OUTPUT

print(phrase[0])

G - Returns the string character at index[0].

print(phrase[8])

A - Returns the string character at index[8].

print(phrase[20])

IndexError – string out of range.

More String Methods

Method	phrase = "Giraffe Academy"	OUTPUT
index()	print(phrase.index("G"))	0 – Returns the position where the string is found.
index()	print(phrase.index("z"))	Returns ValueError : substring not found

More String Methods

Method	phrase = "Giraffe Academy"	OUTPUT
replace()	print(phrase.replace("Giraffe", "Elephant"))	Replaces Giraffe with Elephant OUTPUT: Elephant Academy
	print(phrase.replace("Gira", "Elephant"))	OUTPUT: Elephantffe Academy
	print(phrase.replace("Z"))	OUTPUT: Giraffe Academy
	print(phrase.replace(0))	TypeError: (??) must be string

More String Methods

Method	phrase = " Giraffe, Academy "	OUTPUT
strip()	print(phrase.strip()	Removes any whitespace at the beginning or the end of the string.
split()	print(phrase.split(","))	Splits a string into substrings based on the indicated separator. Useful searching through text files.

****Go to [w3schools.com Python Tutorial](https://www.w3schools.com/python/python_string_methods.asp) to view other String Methods**

To Access **parts** of the string – **SLICE** the string

fruit =	b	a	n	a	n	a
[index or position]	0	1	2	3	4	5

SLICING the String

fruit = "banana"

OUTPUT

print(fruit[n:m])

Start at n position, up to NOT including m position

print(fruit[0])

b

print(fruit[0:3])

ban

To Access **parts** of the string – **SLICE** the string

fruit =	b	a	n	a	n	a
[index or position]	0	1	2	3	4	5
				-3	-2	-1

NEGATIVE SLICING

fruit = "banana"

OUTPUT

print(fruit[n:m])

Start at n position, up to NOT including m position

***To access the end of the string, the last position is **also** -1.**

print(fruit[-3:-1])

an

**See [W3Schools.com](https://www.w3schools.com/python/python_strings.php) – Python Strings
For More String Methods**