

# Introductory Programming Using Python String Manipulation

**Extra Resources** 

# **Overview of String Methods**

- Review the online resource "Python Strings" at link
   <a href="http://www.tutorialspoint.com/python/python strings.ht">http://www.tutorialspoint.com/python/python strings.ht</a>
   m focusing on the following sections:
  - Accessing values in strings
  - Updating strings
  - String special operators
  - Built-in strings methods.
- Review the python documentation "4.1.7 String methods" at
  - https://docs.python.org/3/library/stdtypes.html#stringmethods



# **Overview of String Methods**

This lesson will be covering some of the built-in String methods:

- isupper
- islower
- isalpha
- isdigit
- count
- startswith
- endswith
- 0
- upper
- lower
- replace
- split

**Checking/Validating a String** 

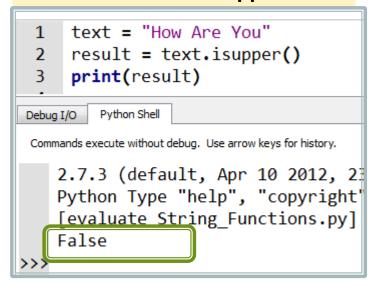
**Modifying a String** 

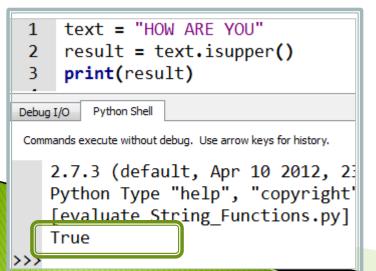
0



## String Methods – isupper, islower

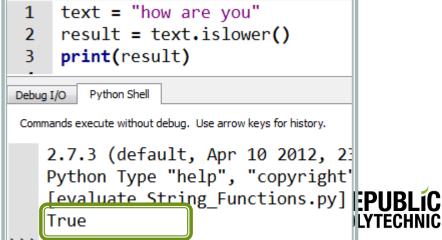
#### Are all characters in upper case?





#### Are all characters in lower case?

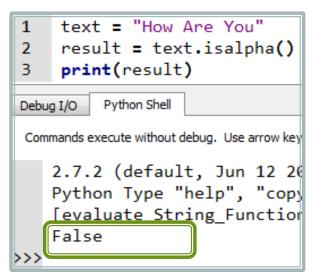
```
text = "How Are You"
2 result = text.islower()
    print(result)
Debug I/O
        Python Shell
Commands execute without debug. Use arrow keys for history.
   2.7.3 (default, Apr 10 2012, 2
   Python Type "help", "copyright"
   [evaluate String Functions.py]
   False
```

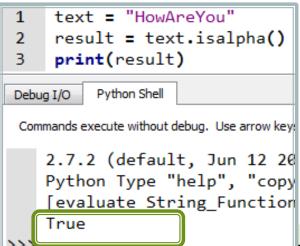




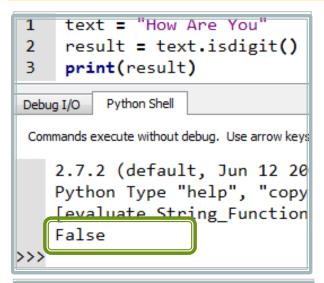
# String Methods – isalpha, isdigit

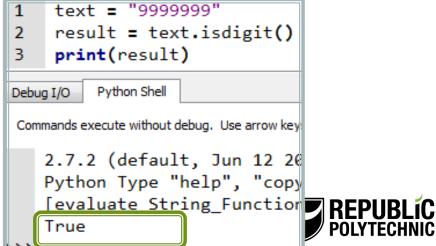
Does the String contain only letters(A to Z)? Space is not a letter.





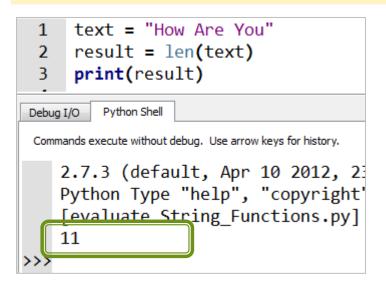
#### Does the String contain only numbers?





# String Method – count Python built-in function - len

#### Find the length, including the space



#### Count the occurrence of character "o"

```
1  text = "How Are You"
2  result = text.count("o")
3  print(result)
.

Debug I/O  Python Shell

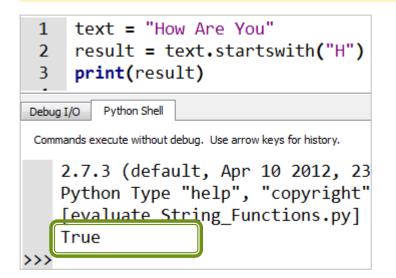
Commands execute without debug. Use arrow keys for history.

2.7.3 (default, Apr 10 2012, 23 Python Type "help", "copyright" [evaluate String_Functions.py]
2
>>>
```



## String Methods – startswith, endswith

#### Does the String start with character "H"?



#### Does the String end with character "u"?



## String Methods – upper, lower

#### Convert all characters to upper case

#### Convert all characters to lower case



## String Methods – split, replace

You can convert a String to a List with the Split function.

## Split the String by character "A" and return a List

**Return a List** 

#### Replace the character "o" with "?"

