

Inbuilt - string Assignment

March 10, 2024

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[1]: # 1. What is the purpose of the len() function in Python, and how can it be
      ↪used with strings?

# Ans>> The len() function in Python is used to determine the length of a
      ↪sequence or collection, such as a (string, list, tuple, dictionary,) etc
# When used with strings specifically, len() returns the number of characters
      ↪in the string.
my_string = "Hello, World!"
length = len(my_string)
print("Length of the string:", length)
```

Length of the string: 13

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[2]: # 2. How can you concatenate two or more strings in Python, and can you provide
      ↪an example of string concatenation?
# Ans>> In Python, you can concatenate (combine) two or more strings using the
      ↪+ operator or by using the str.join() method.
string1 = "Hello"
string2 = "World"
concatenated_string = string1 + ", " + string2 + "!"
print(concatenated_string)
```

Hello, World!

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[4]: # 3. What is string slicing in Python, and how can you extract a portion of a
      ↪string using this method?

# Ans>> The syntax for string slicing is string[start:end:step]
# String slicing in Python refers to extracting a portion of a string by
      ↪specifying a range of indices.
my_string = "Hello, World!"
substring = my_string[7:]
print(substring)
substring = my_string[:5]
print(substring)
substring = my_string[7:12]
print(substring)
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substring = my_string[::2]
print(substring)
```

```
World!
Hello
World
Hlo ol!
```

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[5]: # 4. How can you change the case of a string in Python, and can you provide
      ↪ examples of both making a string all uppercase and all lowercase?
      # Ans>>
      # In Python, you can change the case of a string using the upper() and lower()
      ↪ methods.
      my_string = "Hello, World!"
      uppercase_string = my_string.upper()
      print(uppercase_string)
      lowercase_string = my_string.lower()
      print(lowercase_string)
```

```
HELLO, WORLD!
hello, world!
```

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[6]: # 5. What does the split() method do in Python, and how can you split a string
      ↪ using a specific delimiter?
      # Ans>>
      # In Python, the split() method is used to split a string into a list of
      ↪ substrings based on a specified delimiter.
      # By default, the delimiter is a space character, but you can specify a
      ↪ different delimiter if needed.

      my_string = "apple,banana,orange,grape"
      # Split the string using a comma as the delimiter
      fruits_list = my_string.split(",")
      print(fruits_list)
```

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['apple', 'banana', 'orange', 'grape']
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[ ]:
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