Strings Assignment

May 28, 2021

0.1 Problem 1

Assume that name is a variable of type String that has been assigned a value. Write an **expression** whose value is the first character of the value of name. So if the value of name were "Jones" the expression's value would be 'J'.

[2]:
```
def first_letter(name):
    result = name[0]
    return result
first_letter("Jones")
```

[2]:
```
'J'
```

0.2 Problem 2

Write an expression whose value is the last character in the string associated with name. Remember how to index a string from the right instead of the left.

[3]:
```
def last_letter(name):
    result = name[-1]
    return result
last_letter("Jones")
```

[3]:
```
's'
```

0.3 Problem 3

Write an expression whose value is the string that consists of the first four characters of the string associated with s. Set s = "abcdef" and test your expression.

[4]:
```
def first_four(s):
    s = "abcdef"
    result = s[0:4]
    return result
first_four("s")
```

[4]:
```
'abcd'
```

0.4 Problem 4

Given that s refers to a string, write an expression that evaluates to a string that is a substring of s and that consists of all the characters of s from its start through its fifth character. Set s = "abcdef" and test your expression.

[5]:
```
def substring(s):
    s = "abcdef"
    slice = 5
    result = s[:slice]
    return result
substring("s")
```

[5]: 'abcde'

[0]:
```

```

0.5 Problem 5

Write an expression that results in a String consisting of the second through fourth characters of the String s. Set s = "abcdef" and test your expression.

[27]:
```
def substring(s):
    s = "abcdef"
    result = s[1:4]
    return result
substring("s")
```

[27]: 'bcd'

0.6 Problem 6

Write an expression that evaluates to True if the str associated with s starts with "p". Test your expression with two different strings. In test 1, s = "parameter". In test 2, s = 'Parameter'.

[20]:
```
def check(name):
    result = name.startswith('p')
    return result
check("parameter")
```

[20]: True

[21]:
```
check("Parameter")
```

[21]: False

0.7 Problem 7

Write an expression that returns True if the str associated with s ends with "ism". Test your expression with two different strings. In test 1, s = "capitalism". In test 2, s = 'religion'.

[17]:
```
def check(name):
    result = name.endswith('ism')
    return result
check ("capitalism")
```

[17]:
```
True
```

[18]:
```
check ("religion")
```

[18]:
```
False
```

0.8 Problem 8

Given a variable s associated with a str, write an expression whose value is a str that is identical except that all the letters in it are upper-case. Thus, if the str associated with s were "Saint Martin", the value of the expression would be "SAINT MARTIN".

[24]:
```
my_name = "Saint Martin"
lower_name = my_name.lower()

upper_name = lower_name.upper()
print(upper_name)
```

```
SAINT MARTIN
```

0.9 Problem 9

Write a sequence of statements that finds the first comma in the string associated with the variable s, and associates the variable first with the portion of s up to, but not including the comma. Test your statements with s = "Hello, world".

[32]:
```
s=input()
first="Hello World"
for I in s:
    if I==",":
        break
    else:
        first =first+I
print(first)
```

```
Hello, WorldHello WorldHello
```

0.10 Problem 10

Write an expression whose value is the arithmetic sum of the int associated with x, and the all-digit str associated with s. Test your expression with x = 10 and s = "5".

[8]:
```
x = 10
s = "5"
sum = x + int(s)
print(sum)
```

```
15
```

[0]:
```

```