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- # 10/20/2021
- # The goal of this activity was to introduce us to how string sequences work. We worked on st
- # It was hard combining input with ifs and string sequences

Module Six Lesson One Practice Activity

String Sequences

- Accessing string characters with index
- Accessing substrings with index slicing
- Iterating through characters of a string
- More string methods

Student will be able to

- · Work with string characters by index
- Slice strings into substrings
- Iterate through string characters
- Use string methods

Concept: Accessing a Single String Character

Eview video

Addressing a string index

Strings are sequences of characters. Another common sequence type used in this course is a **list**. Sequences index items counting from 0 for the first item.

string with index for each letter

```
# assign string to student_name
student_name = "Alton"
# first character is at index 0
student name[0]
```

Examples

```
# [ ] review and run example - note the first element is always index = 0
student name = "Alton"
print(student_name[0], "<-- first character at index 0")</pre>
print(student_name[1])
print(student_name[2])
print(student name[3])
print(student name[4])
     A <-- first character at index 0
     t
     0
# [ ] review and run example
student name = "Jin"
if student name[0].lower() == "a":
    print('Winner! Name starts with A:', student_name)
elif student name[0].lower() == "j":
    print('Winner! Name starts with J:', student name)
else:
    print('Not a match, try again tomorrow:', student name)
     Winner! Name starts with J: Jin
# [ ] review and run ERROR example
# cannot index out of range
student name = "Tobias"
print(student_name[5])
     S
```

Task 1: Work with individual string characters

Remember: The first character in a string is at **index 0**.

```
# [ ] assign a string 5 or more letters long to the variable: street_name
# [ ] print the 1st, 3rd and 5th characters
street_name = "Capstreet"
print(street_name[0])
print(street_name[2])
print(street_name[4])
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```
# [ ] Create an input variable: team_name - ask that second letter = "i", "o", or "u"
# [ ] Test if team_name 2nd character = "i", "o", or "u" and print a message
# note: use if, elif and else
team_name = input('Second should = "i", "o", or "u"')

if team_name.isalpha():
    if team_name[1] == "i" :
        print('Second letter is "i"')
    elif team_name[1] == "o" :
        print('Second letter is "o"')
    elif team_name[1] == "u" :
        print('Second letter is "u"')
    else:
        ('Put a team that has "i", "o", or "u" as its second letter')
else:
    pass
```

```
Second should = "i", "o", or "u"dude
Second letter is "u"
```

Concept: Using a Negative Index

view video

Access the end of a string using -1

Strings assign an index number address to each string character

- First character in a string is index 0
- Last character in a string is index -1

negative string index counts from the end

To access the last character in a string:

```
student name[-1]
```

Examples

access the last character with the -1 index

negative index counts back from the last character in a string

```
# [ ] review and run example
student_name = "Joana"
# get last letter
end letter = student name[-1]
print(student_name,"ends with", "'" + end letter + "'")
     Joana ends with 'a'
# [ ] review and run example
# get second to last letter
second last letter = student name[-2]
print(student_name, "has 2nd to last letter of", "'" + second_last_letter + "'")
     Joana has 2nd to last letter of 'n'
# [ ] review and run example
# you can get to the same letter with index counting + or -
print("for", student name)
print("index 3 =", "'" + student_name[3] + "'")
print("index -2 =","'" + student_name[-2] + "'")
for Joana
     index 3 = 'n'
     index -2 = 'n'
```

Task 2

```
# [ ] assign a string 5 or more letters long to the variable: street_name
# [ ] print the last 3 characters of street_name
street_name = "jonny boy"
print(street_name[3:4:])

    n

# [ ] create and assign string variable: first_name
first_name = "Jimmy"
# [ ] print the first and last letters of name
print(first_name[0], first_name[-1])
```

Task 3: Fix the errors

```
# [ ] Review, Run, Fix the error using string index
shoe = "tennis"
# print the last letter
print(shoe[-1])
```

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