

Lesson Plan

String Manipulation

Indexing (~20 minutes)

- Start with the basics of string indexing (What are the 0th, 1st and 2nd character's?)

Python

```
thisIsAString = "hello"

firstChar = thisIsAString[0]

print(firstChar)
```

Move onto taking more than just 1 character

Python

```
thisIsAString = "hello"

firstFourChars = firstFourChars[0:3]

print(firstFourChars)
```

- Have the students guess the character that I choose, and then make words with parts of the alphabet

For example:

Python

```
thisIsAString = "abcdefghijklmnopqrstuvwxyz"

# What indicies (or parts of this string) do we need to create
```

```
# the word hello?
```

Removing Whitespace, .lower() and .capitalize() (~10 minutes)

- Show student there are methods that can be run on a string
- Explain that .strip() (and others) returns a new string, and doesn't change the original string

Assignment Introduction (~10 minutes)

- Remind students how to take input from the user
- Explain what it means to “pretty print”
- Go through a IPO of what our program should look like

Student Questions (~5 minutes)

Assignment Time (~30 minutes)