CS 1340:Fall 2020:Lecture 07

Intro to Python for CS and Data Science

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Types - The Highlights

Strings - 1

- **string literal** - 'SMU'
  - something enclosed in quotes
- **sequence type** - an ordered collection of items
  - `'SMU'` is really like S M U
  - The position in the sequence is called the **index**
  - **Indexes** start at **0**

Strings - 2

(you know this already, but ...)

```
school_mascot = 'Peruna'
print (school_mascot)
print ('school_mascot')
```

> Peruna
> school_mascot

Strings - 3

- You can find the length of a *sequence* by using the `len()` function

```
school_mascot = 'Peruna'
print(len(school_mascot))
```

```
6
```

Strings - 4

- String Concatenation

```
f_name = 'Mark'
l_name = 'Fontenot'
full_name = f_name + ' ' + l_name
```

(as we saw last week...)

- you cannot directly modify a string
  - you have to create a new string with what you want
  - ... just a reminder

Lists - 1

- **list** - a container that stores related values together
- created using square brackets [ ]

```
universities = ['smu', 'tcu', 'utd', 'uta']
for school in universities:
    print (school)
```

> smu
> tcu
> utd
> uta