# Fall 2021 Python Lesson 4.3

Dr. O'Brien
Herbert Lehman High School
2 March 2022

---

**framing**
- **what:** use Python to manipulate strings.
- **why:** Python is really, really good at string manipulation, compared to other languages. Understanding how to manipulate strings lets us do a lot of cool stuff.
- **where to:** Using lists to solve computational problems.

**class:** Python **goal:** HDW use Python to manipulate strings?

---

## Do now

- If a user entered their full name and I wanted to print back their initials, how could we accomplish this?
- If a user entered their full name (first and last) and we just wanted to print their last name, how could we do this using indexing? Give an example using your own name.

**class:** Python **goal:** HDW use Python to manipulate strings?

+If a user entered their full name and I wanted to print back their initials, do we currently have a way to accomplish this? What do you think we would need to be able to do in order to make this possible?
We don't currently have a way to break strings up. In order to do this, we would need to be able to remove/save a certain portion of a string.

+If a user entered their full name (first and last) and we just wanted to print their last name, how could we do this using indexing? Give an example using your own name.
We would need to index each character in their last name and concatenate these values together. Ex: name= Jay Bird; name[4] + name[5] + name[6] + name[7] OR name[-4] + name[-3] + name[-2] + name[-1])

**Work day**

be sure to:

A. Find your seat
B. Read through the Weekly goals to the right and the framing below.
C. Begin work! Raise your hand quietly if you have any questions

**Weekly Goal:**
A. Complete up through **unit 7**
B. Complete unit 8 by Friday

framing
- **what:** Effectively use control structures to automate computational processes.
- **why:** We learned about control structures in the tracy unit. Now we're applying them in a wider variety of contexts.
- **where to:** Using lists to solve computational problems.

**class:** Python **goal:** HDW use Python to manipulate strings?

- Make sure students are working quietly. See CodeHS problem guides for specific Python activities.

Frequently asked questions:

+I don't know what to do!?! Make sure to carefully read the instructions. Take notes when watching the video.

+What are you trying to do with your program? answers will vary, direct student to assignment instructions.

+how can I figure out why my code doesn't work? Try getting out a piece of paper, and following your commands yourself. What do you draw. Where do things go wrong?

+What do I do if I forget a command? See the docs section of CodeHS.

**wrapping up!**
be sure to: read the directions below!



1. Make sure there isn't any litter near your workstation.
2. If you borrowed headphones, sign them back in.
3. **Make sure you are logged out of your computer!**
4. Remain in your seat until the bell rings.

**class:** Python **goal:** HDW use Python to manipulate strings?

## Cell phone distro

be sure to: Carefully read the directions below

a. Students will receive their phones at the end of 9th period and 10th period.

b. Students without a phone may leave class immediately. All other students should remain seated. Once a student collects their phone, they should exit the classroom.

c. Students must show their ID, program, or a notebook with their name on it to receive their phone.

**class:** Python **goal:** HDW use Python to manipulate strings?