



Fall 2021 Python Lesson 4.4

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Herbert Lehman High School
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Dr. O'Brien, 3/3/22



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?



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Do now


be sure to: Take out notebook. Write down date/goal. Answer the question below in complete sentences

1. What will the code below print out? Explain how you know.
2. How could you modify this code so it prints "Lehman H.S."? Explain your answer.

```
name = "Lehman High School"  
print(name[0]+"."+ name[7]+"."+name[12]+".")
```

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

1. It will print "L.H.S.". We know this because name[i] will print the ith letter, so "L", "H" and "S" separated by periods.
2. We can use slice name[i:j] will return all characters from index i up to but not including index j. So we should change the first instance of name[] to name[0:6]. We could also write name[:6].


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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.


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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

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