# CS 110 Python Basics, Printing, Input

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# Did you setup your workspace?

Did you download Python 3?

Did you download VS Code or PyCharm (or Mu)?

### Announcements

- Prep problems 1 and 2
- Group seating will begin on Friday
- Gradescope for attendance?

# The print function

- This function sends characters (strings) to standard output
- By default, the standard output of a python program goes to the console

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# Your 'first' program

Write a program that simply prints out

# Hi Students!

### **Activity**

# Multiple prints

What precisely would this program print out? Are the words on separate lines, or all on one?

```
print('Are')
print('You')
print('In')
print('College?')
```

 By default, the print function sends the output cursor to the next line after printing

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Code

**Standard Output** 

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Code Standard Output

print('Are') Are

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### Code

### **Standard Output**



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Code

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**Standard Output** 

# print('Are') print('You') print('In') print('College?') Are You College

### What will this do?

- Will this work in python?
- If so, what will it print? If not, why?

```
print('Are
You
In
College?')
```

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- Will this work in python?
- If so, what will it print? If not, why?

```
print('''Are
You
In
College?''')
```

# Multiple line strings

- You can use a triple-quote to create a string that has multiple lines
- These two programs produce the same output

### **Activity**

# Write a program

Write a simple program that prints the following output the the python console

He said, "What is up?"
Joe's friend didn't reply.

## Types of quotes

- You can use either single-quotes or double-quotes for printing in python
- You can use single-quotes in double-quoted strings, and vice-versa

```
print('He said, "What is up?"')
print("Joe's friend didn't reply.")
```

# Write a program

What about printing this?

He said, "What's up?"
Joe's friend said, "Not much."

# Song Lyrics

Write a program named living.py that prints the following song lyrics:

```
There's a difference in living and living well.

You can't have it all all by yourself.

Something's always missing 'till you share it with someone else.
```

- Submit to the gradescope assignment named living
- Make sure it passes the one test case!

### Variables

- We can assign names to particular values in our program
- When we give a value a name, this is called assigning a variable

What does it print?

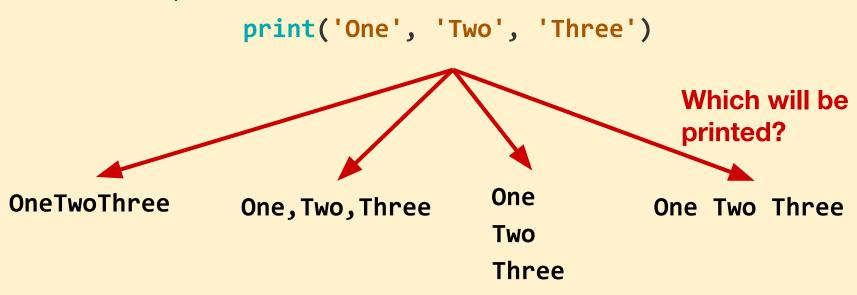
```
first_name = 'Kevin'
last_name = 'McCallister'
print(first_name, last_name)
```

### Activity

Which program prints something different than the others?

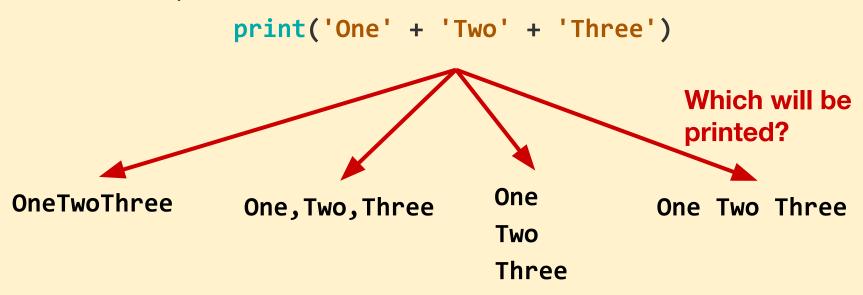
# Using the Comma

- You can put multiple strings in a single call to the print function
- One way to do this is by separating them with commas
- For example:



# Using the plus (concatenation)

- Can also combine strings with the plus symbol
- This is referred to as string concatenation
- For example:



# What will this print out?

```
name = 'Jim'
age = '35'
print('Hello ' + name)
print('you are', age, 'years old')
```