# Compsci 101 Introduction Live Lecture

sum(lst)	sum of the elements in lst
max(lst)	maximum value of lst
min(lst)	minimum value of lst
.append(elm)	Mutates the list by adding elm to the end of the list
.count(elm)	Number of times see elm in the list

Susan Rodger Nicki Washington February 11, 2021

2/11/21

Compsci 101, Spring 2021

1

### **Announcements**

- Assignment 1 Totem due today, Feb 11, 11:30pm
  - Also REFLECT Form due same time
  - Get one grace day, but no consulting hours on Friday
- APT-2 out Tues, Feb 16
- Exam on Tuesday!, Feb 16
- Exam 1 Question session Sunday Feb 14, 4pm
  - Use lecture zoom link, recorded
  - Bring questions, if no questions, it will be short!

### **PFTD**

- Lists continued
- String methods and more
- Exam 1

### Exam 1 Rules

- This is your own work, no collaboration
- Open book, Open notes
- · Do not search for answers on the internet
- Do not type in code where it can be compiled and run
  - Do not use Pycharm, textbook code boxes, Python tutor or any other place the code can be run
- Do not talk to anyone about the exam during the exam, and until it is handed back!

11/21 Compsci 101, Spring 20.

Compsci 101, Spring 2021 4

4

### Exam 1 Logistics

- Take on Tues. Feb 16 between 7am and 11pm
- You pick the start time
  - Must start by 9:15pm
- You get 1 hour 45 min
  - Longer if you have accommodations
- Once you start, your timer starts and you must finish in 1 hour, 45 minutes
- You cannot pause the timer

1 Compsci 101, Spring 2021

## Exam 1 Logistics (2)

- Go to Gradescope to start
  - · login with your netid
  - select the CompSci 101 Exam site
    - Different site than where you turn in assignments
- Click on Exam 1 to start
- · Gradescope saves answers as you type them in
  - Type 4 spaces to indent code
- Disconnected? Just log back in to Gradescope
- · Question? Post a private post on Piazza

2/11/21 Compsci 101, Spring 2021

# Don't go to Gradescope site until you are ready to start!

You click it, you have started!

We do not restart it!

WOTO-1 Cloning http://bit.ly/101s21-0211-1

/11/21 Compsci 101, Spring 2021 7 2/11/21 Compsci 101, Spring 2021

# List Concatenation Steps

- Calculate the *length* of the new list
- Create list of that length
- Copy values from first list

**Brand** new list!

- *Copy* values from second list
- Assign the variable to the new list

WOTO-2 – Mutable http://bit.ly/101s21-0211-2

Compsci 101, Spring 2021 9

# List Mutation: .append(...)

- .append() list function that adds element to end of list
  - Mutates list to left of "."

Same list!

• "." – call function to the right of the dot on the thing to the left of the dot (LEFT.RIGHT)

WOTO-3- List Append http://bit.ly/101s21-0211-3

Try drawing it out if you aren't sure!

# String's split(...)

- Strings have functions too!
- TYPE\_STRING.FUNCTION(PARAMETERS)
  - "." means apply function to what is on the left

String's join(...)

- TYPE\_STRING.join(SEQ\_OF\_STRINGS)
  - Opposite of .split()
  - Creates string from sequence's items separated by the string to the left of join

Compsci 101, Spring 2021 14

WOTO-4 – Split and Join http://bit.ly/101s21-0211-4

### More Methods

Compsci 101, Spring 2021 16

0.			
S.F	rII	n	$\neg$
Oι	ш	ш	u
_			=

.find(s)	index of first occurrence of s
.rfind(s)	index of last occurrence of s (from Right)
.upper()/ .lower()	uppercase/lowercase version of string
.strip()	remove leading/trailing whitespace
.count(s)	number of times see s in string
.startswidth(s)	bool of whether the string begins with s
.endswidth(s)	bool of whether the string ends with s

#### List

sum(lst)	sum of the elements in lst
max(lst)	maximum value of lst
min(lst)	minimum value of lst
.append(elm)	Mutates the list by adding elm to the end of the list
.count(elm)	Number of times see elm in the list

Compsci 101, Spring 2021 18