

Presentation 2

Variables & Assignment

Announcements for Today

If Not Done Already

- Install Python
 - Make sure right version
 - Make sure Kivy works
- Enroll in Piazza
- Sign into CMS
 - Fill out the Survey
 - Complete AI Quiz

Labs 0, 1

- Labs are due at next class
 - So labs 0, 1 due **now**
 - By *end* of the lab section
 - Try to finish them *before*
- Makes T/W a little tight
 - Only 2 days (not 5)
 - Will keep them small
- Getting behind is bad!

Swapping Lab Sections

- In the past we provided a swapping service
 - You gave us a list of sections
 - And we tried to swap with someone else
- It does **not** look like we need this now.
 - The two new sections gave us “breathing room”
 - So you can safely swap in Student Center
 - But sections are capped: 45 (online), 20 (in-person)

Helping You Succeed in this Class

- **Consultants.** Drop-in, **Online** Office Hours
 - Daily office hours (see website) with consultants
 - Very useful when working on assignments
- **AEW Workshops.** Additional discussion course
 - Runs parallel to this class – completely optional
 - See the website; under ENGRG in Fall Roster
- **Piazza.** Online forum to ask and answer questions
 - Go here first **before** sending question in e-mail
- **Office Hours.** Talk to the professor!
 - Zoom link will remain open immediately after class.

Labs vs. Assignments

Labs

- Held every week
- Graded on **completeness**
 - Always S/U
 - Try again if not finished
- Indirect affect on grade
 - Can miss up to 3 labs
 - After that, grade reduced
- Similar to language drills
 - Simple, but take time

Assignments

- Every two weeks
 - First one due Sep. 30
- Graded on **correctness**
 - Assign points out of 100
- But **first** one is for *mastery*
 - Resubmit until perfect grade
- Can work with a partner but..
 - Last assignment is solo only!
 - That is because no final

CIS Partner Finding Social

9/08/2020 • 7:30PM–10:30PM ET • tinyurl.com/yx8rcnrf



All majors and gender identities welcome!



Women in Computing at Cornell



Execute the Statement: $x = x + 2$

- Draw variable x on piece of paper:

x 5

Execute the Statement: $x = x + 2$

- Draw variable x on piece of paper:

x 5

- Step 1: evaluate the expression $x + 2$
 - For x , use the value in variable x
 - Write the expression somewhere on your paper

Execute the Statement: $x = x + 2$

- Draw variable x on piece of paper:

x

5

- Step 1: evaluate the expression $x + 2$
 - For x , use the value in variable x
 - Write the expression somewhere on your paper
- Step 2: Store the value of the expression in x
 - Cross off the old value in the box
 - Write the new value in the box for x

Execute the Statement: $x = x + 2$

- Draw variable x on piece of paper:

x

5

- Step 1: evaluate the expression $x + 2$
 - For x , use the value in variable x
 - Write the expression somewhere on your paper
- Step 2: Store the value of the expression in x
 - Cross off the old value in the box
 - Write the new value in the box for x
- Feel free to discuss your answer (privately) on chat!

Which One is Closest to Your Answer?

A:

x 7

B:

x

x

C:

x

x

D:

— \ _ (ツ) _ / —

Which One is Closest to Your Answer?

A:

x 7



B:

x

x

C:

x

x

$$x = x + 2$$

Execute the Statement: $x = 3.0 * x + 1.0$

- You have this:

x

Execute the Statement: $x = 3.0 * x + 1.0$

- You have this:

x ~~5~~ 7

- Execute this command:
 - Step 1: **Evaluate** the expression $3.0 * x + 1.0$
 - Step 2: **Store** its value in x

Execute the Statement: $x = 3.0 * x + 1.0$

- You have this:

x ~~5~~ 7

- Execute this command:
 - Step 1: **Evaluate** the expression $3.0 * x + 1.0$
 - Step 2: **Store** its value in x
- Feel free to discuss your answer (privately) on chat!
- Discuss it if you did something different.

Which One is Closest to Your Answer?

A:

x

B:

x

x

C:

x

x

D:

—_ (ツ) _/—

Which One is Closest to Your Answer?

A:

x



B:

x

x

C:

x

x

$$x = 3.0 * x + 1.0$$

Exercise: Understanding Assignment

- Add another variable, `interestRate`, to get this:

x 22.0 `interestRate` 4

- Execute this assignment:

```
interestRate = x / interestRate
```

- Feel free to discuss your answer (privately) on chat!
- Discuss it if you did something different.

Which One is Closest to Your Answer?

A:

x ~~5.5~~

interestRate ~~22.0~~

B:

x

interestRate ~~22.0~~

interestRate

C:

x

interestRate ~~22.0~~

D:

x

interestRate ~~22.0~~

Which One is Closest to Your Answer?

A:

x ~~5.5~~

interestRate

B:

x

E:

ㄟ_(ツ)_/ㄟ

C:

x

interestRate

interestRate

Which One is Closest to Your Answer?

interestRate = x/interestRate

B:

x 22.0

interestRate ~~4~~

interestRate 5.5

C:

x 22.0

interestRate ~~5.5~~



D:

x 22.0

interestRate ~~5~~

Which One is Closest to Your Answer?

$$\text{interestRate} = x / \text{interestRate}$$

B:

x ~~5~~ ~~7~~ 22.0

interestRate ~~4~~

interestRate 5.5

C:

x 22.0

interestRate ~~4~~ 5.5



D:

x ~~5~~ ~~7~~ 22.0

interestRate ~~4~~ 5

Exercise: Understanding Assignment

- You now have this:

x 22.0 interestRate ~~x~~5.5

- Execute this assignment:

```
intrestRate = x + interestRate
```

- Feel free to discuss your answer (privately) on chat!
- Discuss it if you did something different.

Which One is Closest to Your Answer?

A:

x

interestRate

B:

x

interestRate

intrestRate

C:

x

interestRate

D:

x

interestRate

intrestRate

Which One is Closest to Your Answer?

A:
x
interestRate

B:
x
estRate

E:
~_ (ツ) _/

C:
x
interestRate

interestRate
intrestRate

Which One is Closest to Your Answer?

A:

x

interestRate

B:

x

interestRate

intrestRate



intrestRate = x + interestRate

^
e

Which One is Closest to Your Answer?

A:

x

interestRate

B:

x

interestRate

intrestRate



```
intrestRate = x + interestRate
```

^
e

Spelling mistakes in Python are bad!!

Questions?