PRO TIP

As you learn to program, it's expected to make *many* mistakes at the beginning *(part of the learning process 😊)*. That's ALL RIGHT.

- Be patient.
- Understand the mistake before looking up the fix.
- Practice more.
Course Webpage

- https://relate.cs.illinois.edu/course/cs101-sp23/
  
- Sign in using Illinois Email
Lessons and HWs are auto-submitted at due date time

Labs start this WEEK

Lesson00 and Lesson01 (due on Wednesday 2/1/2023 at 10:00 pm)

HW00 (due on Monday 2/6/2023 at 10:00 pm)

DRES Letters
Email Communication

- Ruby: rubyt@Illinois.edu or cs101admin@cs.illinois.edu
- Mattox: mattox@illinois.edu or cs101admin@cs.illinois.edu
- Request a Lab makeup: cs101admin@cs.illinois.edu
- General: cs101admin@cs.illinois.edu
- Lab TA email: will be added soon to course webpage
Office Hours

- We are finalizing office hours schedule

- Physical hours location:
  - Computer Science Building Basement **Siebel 0224**

- Virtual Hours: using **queue** and **discord**

- Will update the course page soon 😊
Ask Questions on CampusWire

Class feed
CS 101: Introduction to Programming for Engineers

Class feed at a glance

Welcome to CS 101!
Dear Students, Welcome to CS 101...

Are labs due by the end of the c...
Will we be able to work on the lab o...

Confusion about Lab 00
The website states that "Labs start t...

I can't get the application to dow...
I[s]Screenshot_20230120_115855.png

"This is identical to reference sol...
If a question is answered correctly a...

I finished the 00 lesson but it sti...
Is that just how it is or am I not doin...

Submission Lessons

Events

Today: January 21st

No events today
Your day is all clear!
Topics Covered in Week 1 *(Lesson 00)*

- Math Review
- Abstraction
- Computational Thinking
- Marr’s Levels
Today’s Plan (Lesson 01)

- Reading input from the user
- Python Elements and Basic Syntax (Lesson 01–3)
  - Literals, names, operators, comments, keywords
- Expressions and Assignment Statement (Lesson 01–6)
- Errors: Syntax and Logical (Lesson 01–14)
- Comments (Lesson 01–20)
Assignment Statement

\[ \text{<variable name> = <value>} \]
\[ \text{<variable name> = <expression>} \]

val = 5

val = 5 + 1

x = 3
val = x + 5
v0 = 5  # initial velocity
g = 9.81  # acceleration due to gravity
yc = 0.2  # height

import math

t1 = (v0 - math.sqrt(v0**2 - 2*g*yc))/g
t2 = (v0 + math.sqrt(v0**2 - 2*g*yc))/g

print( 'At', t1, 's and', t2, 's, the height is', yc, 'm.' )
In 1947, engineers working on the Mark II computer at Harvard University found a moth stuck in one of the components.
Group Exercise

- Create a group of two or three colleagues and work on the following exercise

- Write a Python program that finds the area of a rectangle

1. Prompt the user to input two values: **length** and **width**
2. Compute the **area of the rectangle**
3. Print the value of the **area**
Wrap-up

- Today’s Lecture
  - Introduction to Syntax (Lesson 01)
- Next Lecture
  - Data Types (Lesson 02)