



GRAB A BYTE



Lil Miss Coder February Activity
Student Leader: Tanvi Naik & Cameryn Reeves

AGENDA

- Welcome
- Call for Last Month's Challenge
- Introduce Project
- Basics
- Walk through Project
- Introduce Challenge
- Demo Last Month's Challenge



INTRODUCE ACTIVITY

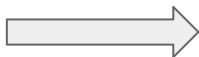
- Last month we used HTML code to help us create a personal webpage.
 - Today, we will be using Python to create if/else statements and make a questionnaire!
- Please open attached instructions to follow along.



GET READY

Please go to `lilmisscoder.com` for
<https://www.python.org/downloads/>

located under the “Event” page!



February 6th -- Grab a Byte

EVENT DETAILS:

Virtual Event: 1-1:40 pm (CT)

Password: VBd2DR

EVENT CONTENTS:

We will be using Python to create a questionnaire!!

Please make a CodePen account prior to the event. You can find the link below.

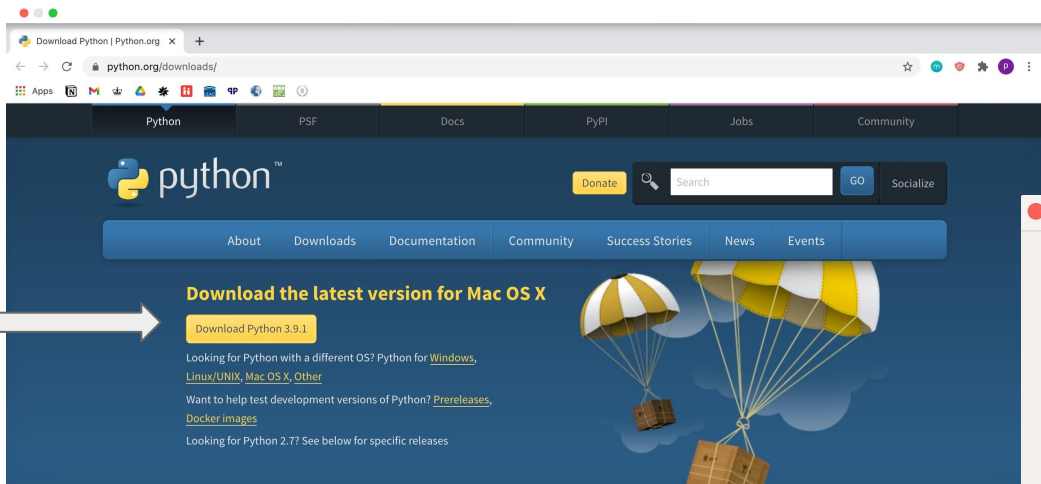
ZOOM LINK:

[HTTPS://US02WEB.ZOOM.US/J/75493325662?PWD=TWFPehRPNjL1bVZjZ21SWMTRV3F0UT09](https://us02web.zoom.us/j/75493325662?pwd=TWFPehRPNjL1bVZjZ21SWMTRV3F0UT09)

PYTHON LINK:

[HTTPS://WWW.PYTHON.ORG/DOWNLOADS/](https://www.python.org/downloads/)

DOWNLOADING PYTHON (FOR MAC)



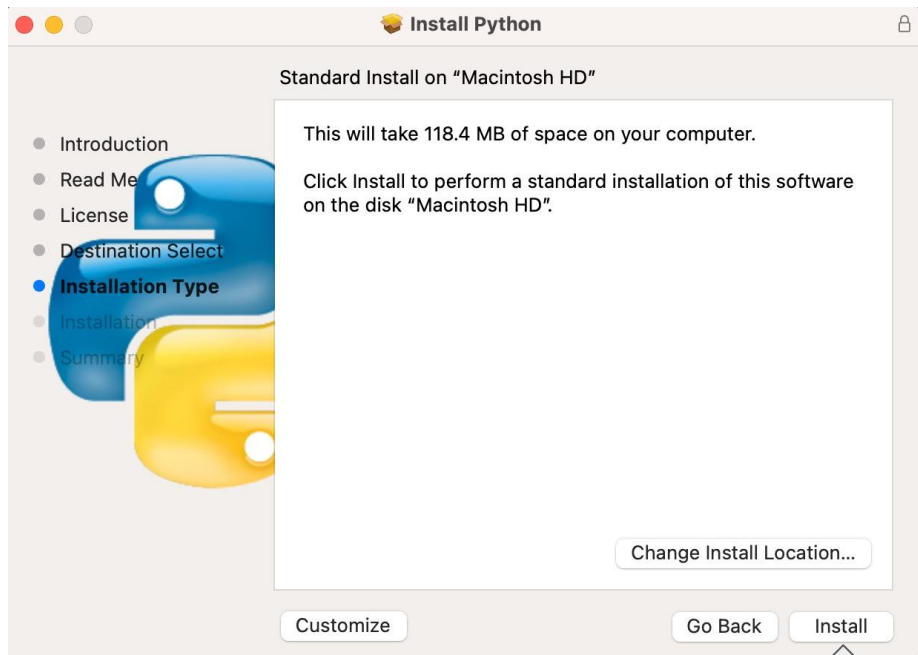
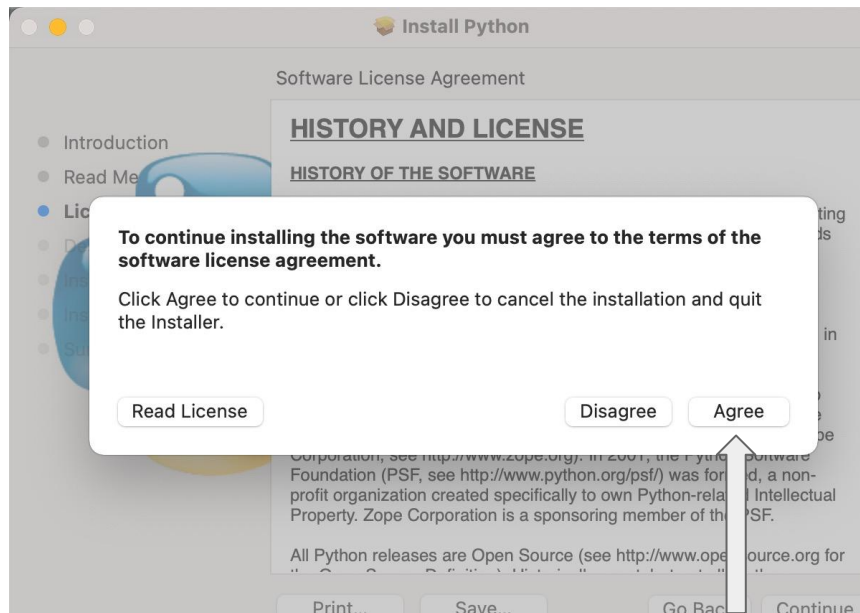
Active Python Releases

For more information visit the [Python Developer's Guide](#).

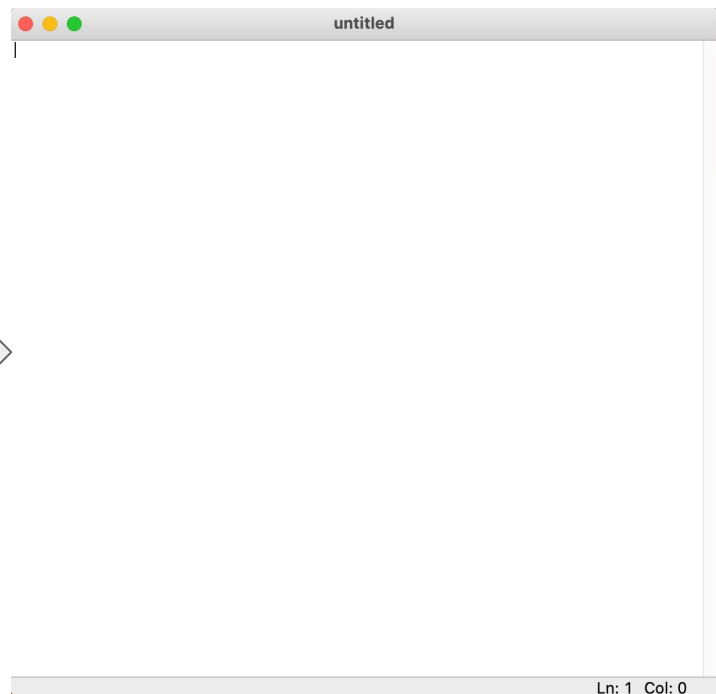
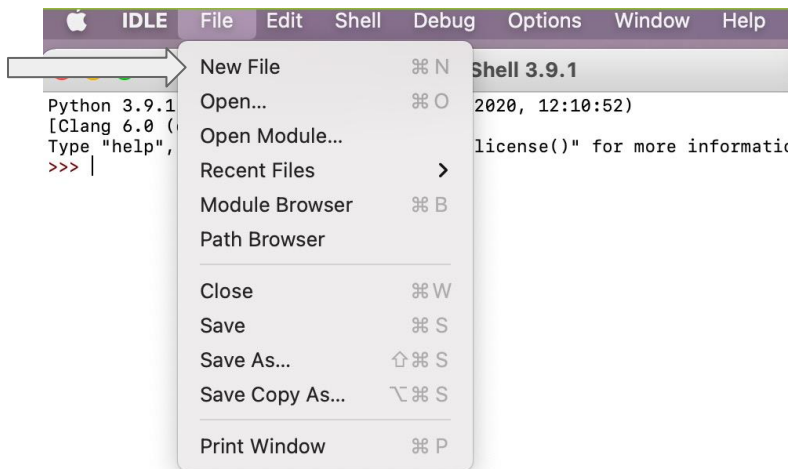
Python version	Maintenance status	First released	End of support	Release schedule
3.9	bugfix	2020-10-05	2025-10	PEP 596
3.8	bugfix	2019-10-14	2024-10	PEP 569



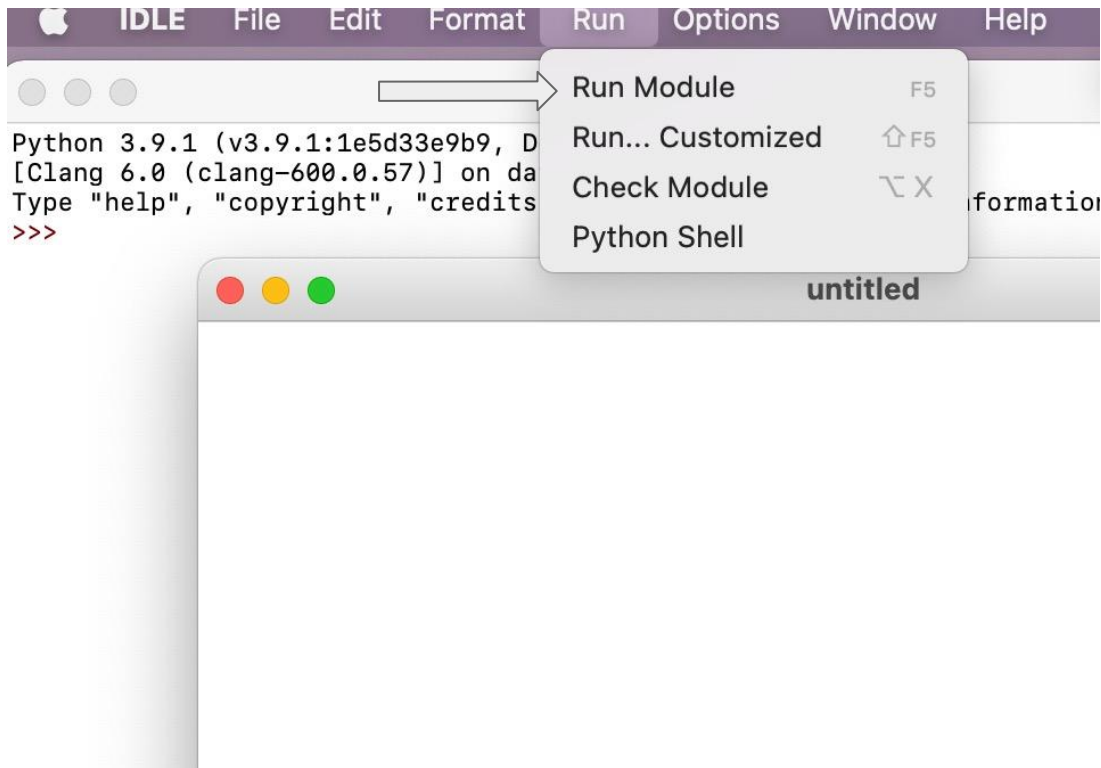
DOWNLOADING PYTHON (FOR MAC)



DOWNLOADING PYTHON (FOR MAC)



HOW TO RUN (TEST) PYTHON (FOR MAC)



DOWNLOADING PYTHON (FOR WINDOWS)



The screenshot shows the Python website's navigation bar with links for About, Downloads, Documentation, Community, and Success Stories. The 'Downloads' section is highlighted, showing the text 'Download the latest version for Windows' and a yellow button labeled 'Download Python 3.9.1'. Below this, there are links for other operating systems and pre-releases. A white arrow points from the left towards the 'Download Python 3.9.1' button.

python™

Donate Search

About Downloads Documentation Community Success Stories

Download the latest version for Windows

Download Python 3.9.1

Looking for Python with a different OS? Python for [Windows](#), [Linux/UNIX](#), [Mac OS X](#), [Other](#)

Want to help test development versions of Python? [Prereleases](#), [Docker images](#)

Looking for Python 2.7? See below for specific releases

Python 3.9.1 (64-bit) Setup



Install Python 3.9.1 (64-bit)

Select **Install Now** to install Python with default settings, or click **Customize** to enable or disable features.



Install Now

C:\Users\camer\AppData\Local\Programs\Python\Python39

Includes IDLE, pip and documentation
Creates shortcuts and file associations

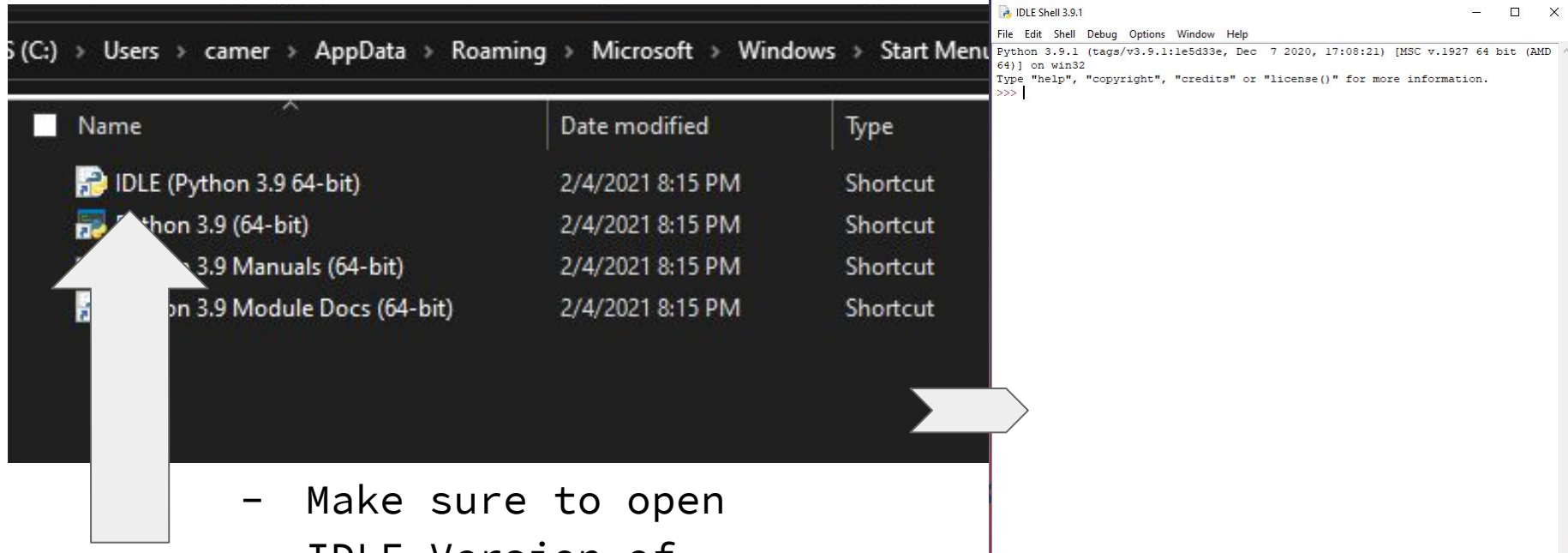


Customize installation

Choose location and features

- ☒ Install launcher for all users (recommended)
- ☐ Add Python 3.9 to PATH

DOWNLOADING PYTHON (FOR WINDOWS)



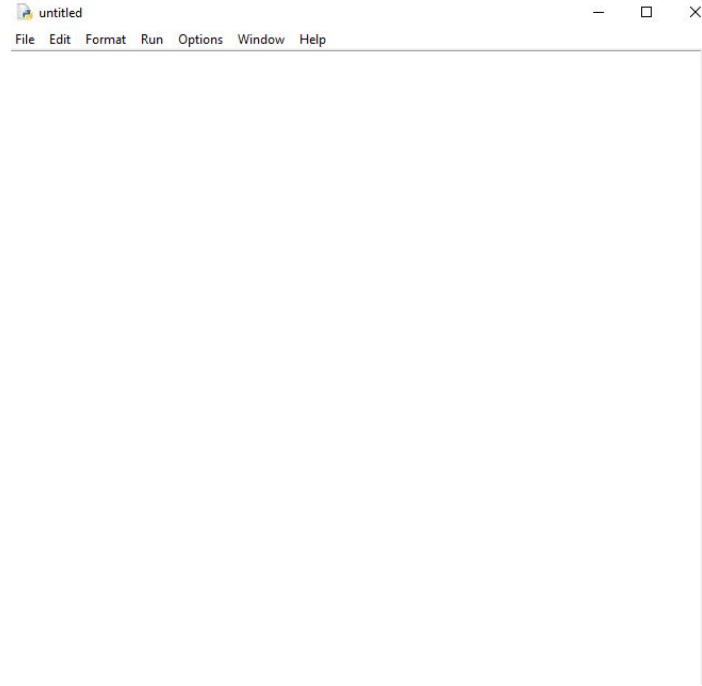
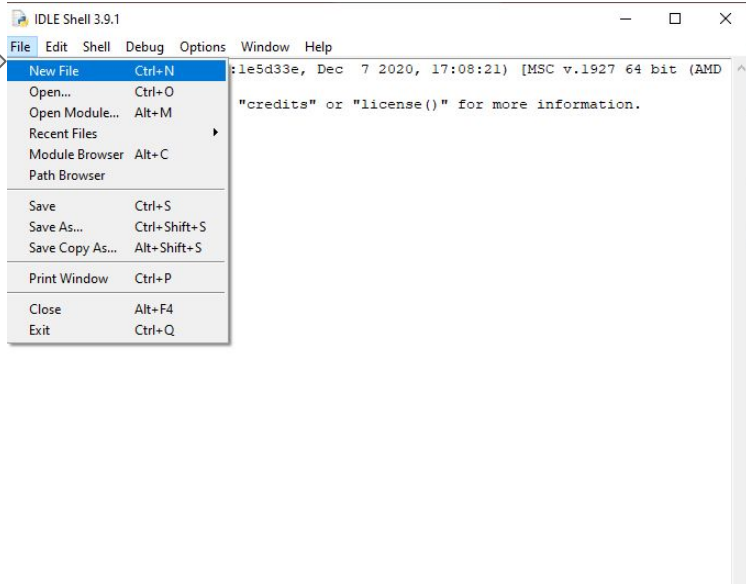
The image shows a Windows Start Menu search results window and a Python IDE Shell 3.9.1 window. The Start Menu window displays a list of search results for 'Python 3.9'. A large white arrow points to the 'Python 3.9 (64-bit)' entry. The IDE Shell window shows the Python 3.9.1 prompt and the command 'help()' being entered.

Name	Date modified	Type
Python 3.9 (64-bit)	2/4/2021 8:15 PM	Shortcut
Python 3.9 Manuals (64-bit)	2/4/2021 8:15 PM	Shortcut
Python 3.9 Module Docs (64-bit)	2/4/2021 8:15 PM	Shortcut

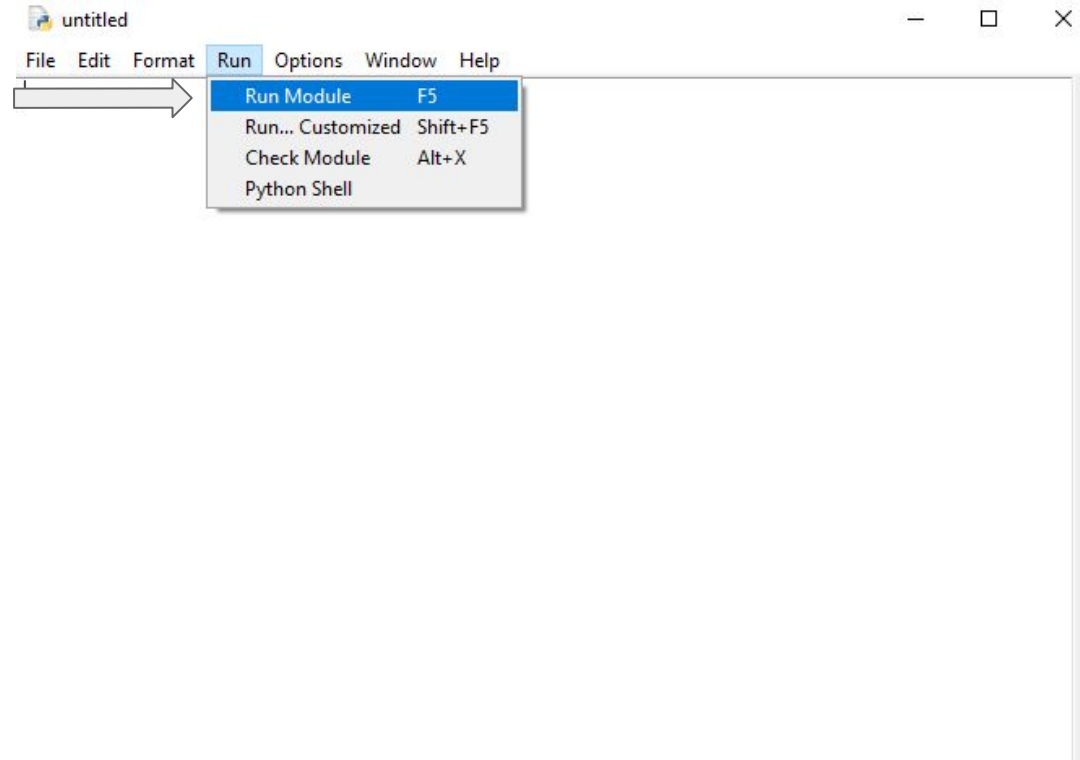
Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec 7 2020, 17:08:21) [MSC v.1927 64 bit (AMD64)] on win32
Type "help()", "copyright()", "credits()" or "license()" for more information.
>>>

- Make sure to open
IDLE Version of
Python

DOWNLOADING PYTHON (FOR WINDOWS)



HOW TO RUN (TEST) PYTHON (FOR WINDOWS)



ACTIVITY

- Let's go to our Python program and open a new project!



BASICS

```
print(" /|")  
print(" /|")  
print(" / |")  
print("/_||")
```



This is a **print statement**. In books, what characters' say is in quotation marks. Similarly, what's in the quotation marks is what the program says.



if/else statement: This is a matching pair statement, so if there's an **if statement**, there has to be an **else statement**!

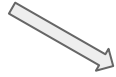
Example: **If** it is the morning, say "Good morning", **else** say "Good afternoon".

elif statements: This is nested statement within an if/else (conditional statement) if there are multiple options; short for "else if"

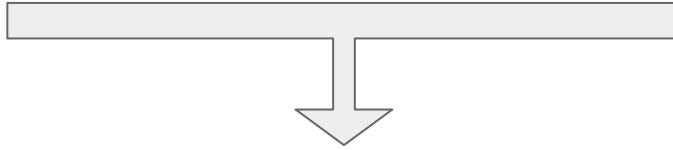
case sensitive: Python can tell a difference between uppercase and lowercase letters!

WALK THROUGH

```
answer=input("Do you like Valentine's Day? Answer Yes or No")
```



Helps determine how the student answers to the question

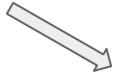


Then, it is an if/then statement:

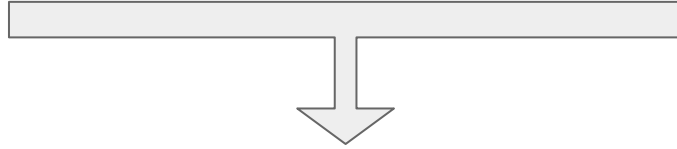
```
if answer=="Yes":  
    print ("Yay! Then I bet you like candy too! ")  
  
else:  
    print ("Oh no! But I bet you still like candy!")
```

WALK THROUGH

```
answer=input("Do you like chocolate? Answer Yes or No ")
```



Helps determine how the student answers to the question



Then, it is an if/then statement (but a larger version!):

```
if answer=="Yes":
```

```
answer=input("Wonderful! What type of chocolate is your favorite? Answer - dark, milk, white")
```

```
if answer=="dark":
```

```
    print ("Wow! I love dark chocolate covered cherries! You should try them, too!" )
```

```
elif answer=="milk":
```

```
    print ("Oh, so good!")
```

```
elif answer=="white":
```

```
    print ("A fun fact: White chocolate isn't really chocolate!")
```



elif is Python's way of saying "if the previous conditions were not true, then try this condition".

Finally, our matching
else statement:

```
else:
```

```
    print ("There's a lot of other food you can get on Valentine's Day! ")
```

```
answer=input ("Do you like types of sweets? Answer Yes or No ")

if answer=="Yes":

    print ("Make sure you get some of those on Valentine's Day!" )

else:

    print ("I love pretzels and chips! You should try those for Valentine's Day! ")
```



Here, we can see another **answer=input**, an **if/else statement**, and **print statements**!

```
print("
print(" /      \      \
print("/      \      \
print("|      |      |
print("\      /      /
print(" \      /      /
print("  \    /      /
print("   \  /      /
```

CHALLENGE



Finish the questionnaire and ask more about the user's personal candy choices!

Then, create a story generator with a program that will ask users for inputs such as their favorite candy, favorite Valentine's Day activity, etc., and then build a story around the data.

Draw a picture that helps show your story!

What does this mean?

Use if/else statements to create an

Interactive story!



DEMO LAST MONTH: BABY, IT'S CODE OUTSIDE!

Challengers, please present your activity from last month.

Last month, we used HTML code to create a
personal webpage!



NEXT MONTH

- Big Coding Competition, March 6th, 2021 at 1pm
- Please submit your challenge on

<http://www.lilmisscoder.com/contact-us.html>



THANK YOU SO MUCH
FOR JOINING US TODAY!
HAPPY VALENTINE'S
DAY!