Season 2

Review

What do we remember from last year?

Programming is telling a story.

Getting the computer to do what you want.

Parts to make the whole

Python is a programming language – used to tell story / get what you want

Not the only language C, Java, … many more

## Homework:

### Practice may not make perfect but can often make things go smoother

### 1-2 hours per week

* **Only after all other homework**
* Standing assignment: Duplicate/extend previous class(es) activity
* Can be all-encompassing – Jack Donavin 6.251

Last year’s project Twenty Questions – “I’m thinking of a number…”

Let’s look at YOUR example

* Let’s play it
* What are some of the program’s features?
* in detail, line by line.

# *# iteration\_7.py 12Aug2020 crs*

*Comments*

*How do they work? What do they do? Of what use are they?*

*What does this comment tell the reader?*

"""  
Show use of subroutine for game  
Support changing hi guess limit  
+ Prompt user for number  
  
+ Set up target, check for match  
Use integer values  
  
+ Check / Report too high, low,..  
  
+ Randomize the target  
  
+ Add preamble with range  
  
+ Add multiple game support  
  
+ Protect against typos - ask again  
"""

What does the “”” do? Which one?

Why do we call the group a “Doc comment”

import random

Bringing additional stuff

What does “random” bring?

target\_hi = 20 # High end of target  
target\_hi = 30 # High end of target  
###target\_hi = 5 # TFD  
target\_low = 1 # LOW END OF TARGET

variables

assignment

at the end of line comments

comments to hide code

preamble = f"""  
I'm thinking of a number between {target\_low} and {target\_hi}  
Can you guess it? Remember to press the ENTER key  
to enter your guess. Good Luck!  
"""

print(preamble)

while True:

target = random.randint(target\_low, target\_hi)

while True:

inp = input(f"Enter Guess ({target\_low} and {target\_hi}):")

print("Number:", inp)

try:  
 guess = int(inp) *# Convert to integer* except:  
 print(f"I don't recognize '{inp}' as a number"  
 " please try again.")  
 continue

if guess < target:  
 print("Sorry your input of", guess, "is too low.")  
 continue  
 if guess > target:  
 print("Sorry your input of", guess, "is too high.")  
 continue  
 if guess == target:  
 print("Congratulations", guess, "is my number!")  
 break # End this game

print("Play a new game?")  
 inp = input("Enter N to quit: ")  
 if inp == "N" or inp == "n":  
 break

print("See you next time.")