**DEBUGGING**

Removing bugs from your code.

Steps to remove the bugs:

1. Describe the problem.

# # Describe Problem

# def my\_function():

#   for i in range(1, 20):

#     if i == 20:

#       print("You got it")

# my\_function()

def my\_function():

  for i in range(1, 21):

    if i == 20:

      print("You got it")

my\_function()

1. Reproduce the bug:

# # Reproduce the Bug

from random import randint

dice\_imgs = ["❶", "❷", "❸", "❹", "❺", "❻"]

# dice\_num = randint(1, 6)

dice\_num = randint(0, 5)

print(dice\_imgs[dice\_num])

1. Play Computer and Evaluate each line

# # Play Computer

year = int(input("What's your year of birth?"))

if year > 1980 and year < 1994:

  print("You are a millenial.")

# elif year > 1994:

elif year >= 1994:

  print("You are a Gen Z.")

1. Fixing Errors & Watching for Red Lines

# # Fix the Errors

# age = input("How old are you?")

age = int(input("How old are you?"))

if age > 18:

# print("You can drive at age {age}.")

    print("You can drive at age {age}.".format(age))

else:

    print("Can't Drive.")

1. Squash bugs with a print statement:

# #Print is Your Friend

pages = 0

word\_per\_page = 0

pages = int(input("Number of pages: "))

print(pages)

# word\_per\_page == int(input("Number of words per page: "))

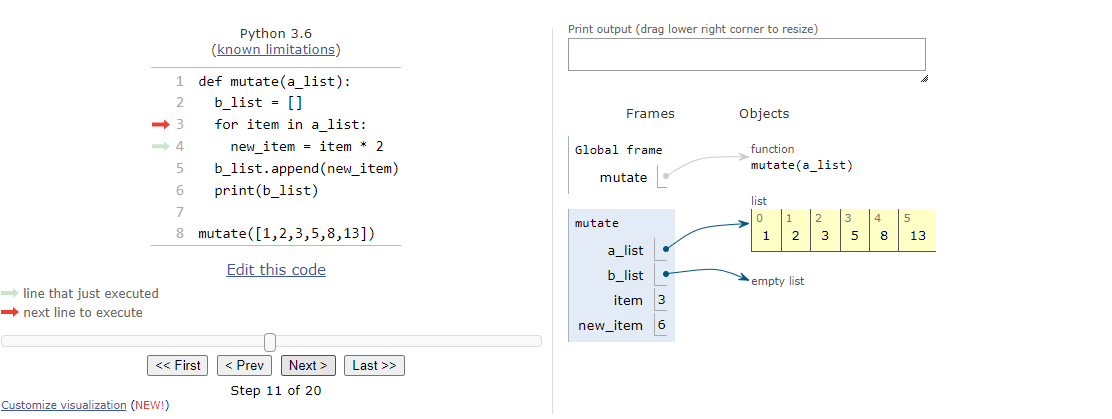
word\_per\_page = int(input("Number of words per page: "))

print(word\_per\_page)

total\_words = pages \* word\_per\_page

print(total\_words)

1. Using a debugger (pythontutor.com)

****

