Prof. Hilton, I had problems this time saving my answers directly on the PDF. They were deleted every time I reopened it. Any idea what I’m doing wrong? It’s more helpful to review the problems side by side with the answers. V/r Kate

a. (1<=3) or (3!=6) True

b. not ((3==3) and (6>1)) the 'not' makes this false

c. "M" == "F" and True This one was a bit confusing but False

as "M" does not equal "F" or True

Separately, I’m forgetting again how to call a function. Do we absolutely have to have two spaces before the call the function? No.

Prof. Hilton: call a function by writing the name of the function, followed by parentheses that may optionally have actual parameters placed inside the parentheses.  Spaces have nothing to do with it.

def temp():

celsius = float (input ("What is the Celsius temperature? "))

fahrenheit = 9/5 \* celsius + 32

print ("The temperature is", fahrenheit, "degrees Fahrenheit.")

# Print warnings for extreme temps

if fahrenheit > 90:

print ("Welcome to the surface of the sun!")

if fahrenheit < 30:

print ("Can you lend me a coat?")

temp()

2. Write a Python program that prompts the user to enter a two-character abbreviation for a state and prints a message indicating if the abbreviation for Florida was entered. If the user entered a string with a length other than 2, you should print a message telling them their input was not valid. Your program should be able to recognize the abbreviation for Florida, no matter what case the letters are entered in.

Problem 2:  After getting the input from the user, you should first check the state variable to make sure it has a length of two characters (otherwise, we know it cannot possibly be a state abbreviation).  If state has a length of two,  then you can check if state is an abbreviation for Florida.  In your IF statement, you can't just say "fl" or "FL" or etc.   You have to include properly formed conditional expressions:  state == "fl" or state == "FL" or etc.

Sorry, still didn’t get this one

3. The ACME Scholarship Company is accepting applications from students who are math, computer science or physics majors, or if the student is a first-generation college student who is majoring in any science (those listed above, plus biology, geology, and chemistry). Write a Python program that prompts a student for their major, then asks if they are a first-generation student. Depending on their answer, print a message that says whether they are eligible to apply for the scholarship. Hint: It might simplify things if you stored the names of all the acceptable majors in a list

Problem 3:  IF statements expect you to provide an expression that evaluates to either True or False.  If you want to know if the value stored in the variable major is included in a list of possible majors, so you would say something like:

acceptable\_majors = ["math", "computer science", "physics", "biology", "geology", "chemistry"]

if major in acceptable\_majors:  
   *some code to do the True branch actions*

else:

*some code to do the False branch actions*

Sorry, still getting invalid syntax. Do we need the “” if the majors are in a list? Because I did not put mine in quotes. I know that isn’t the only problem with this attempted code.

def main():

total = 0.0

count = 0

x = float(input("Enter a number (negative to quit): "))

while x >= 0:

total = total + x

count = count + 1

x = float(input("Enter a number (negative to quit): "))

print("\nThe average of the numbers is", total / count)

main()