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Connor Seemann Seat 23 Lab 4.1
# Program that will find the cost of your bagels in the moring
print("This program will find the cost of your bagels in the morning!")
ammount = int(input("How many bagels are ordered: ") )
cost = ammount * 0.60 if (ammount > 6) else ammount * 0.80
print("The cost of {bagels} is ${cost:.2f}".format(bagels=ammount, cost=cost) )
# Connor Seemann Seat 23 Lab 4.2
from math import sqrt
# Program that will find the roots to second degree polynomials
print("This program will find the roots of a polynomial to the second degree")
term = [] #assigning the type of term as a list
term = eval( input("Enter a, b, c: ") ) # getting user input for the terms
a = term[0]; b = term[1]; c = term[2]
if ((b**2 - 4 * (a) * (c)) < 0): # checks to see if the discriminate is
 negitive
   x1 = (-b + sqrt(-1*(b**2 - 4 * a * c))) / (2 * a) # makes the
    discriminate positive and will add the i in the print statement
   x2 = (-b - sqrt(-1*(b**2 - 4 * a * c))) / (2 * a) # makes the
    discriminate positive and will add the i in the print statement
    if (x1 == x2):
        print("The roots are {x1:.2f}i".format(x1 = x1))
    elif (x1 != x2):
        print("The roots are \{x1:.2f\}i, \{x2:.2f\}i".format(x1=x1, x2=x2))
elif ((b**2 - 4 * a * c) >= 0): # checks to see if the discriminate is positive
    x1 = (-b + sqrt(b**2 - (4 * a * c))) / (2 * a) # finds the +
    discriminate
   x2 = (-b - sqrt(b**2 - (4 * a * c))) / (2 * a) # finds the -
    discriminate
    if (x1 == x2):
        print("The roots are \{x1:.2f\}".format(x1 = x1))
    elif (x1 != x2):
        print("The roots are \{x1:.2f\}, \{x2:.2f\}".format(x1=x1, x2=x2))
```