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#Donald Marovich - Assignment 1

#Part 1
#This program converts Farenheit to Celcius
#Asks user for temperature input
finput = input("Enter the temperature in Farenheit:")

#Converts user input from string to integer
f = int(finput)

#Formula calculates temperature in celcius
c = 5.0/9.0 * (f - 32)

#Output result to user
print ("The temperature in Celcius:", c)



#Part 2
#This program calculates the area of a trapezoid
print ("Area of a trapezoid")

#Asks the user for height and lengths
heightinput = input("Enter the height of the trapezoid:")
lengthinput1 = input("Enter the length of the bottom base:")
lengthinput2 = input("Enter the length of the top base:")

#Converts user input from string to integer
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height = int(heightinput)

length1 = int(lengthinput1)

length2 = int(lengthinput2)

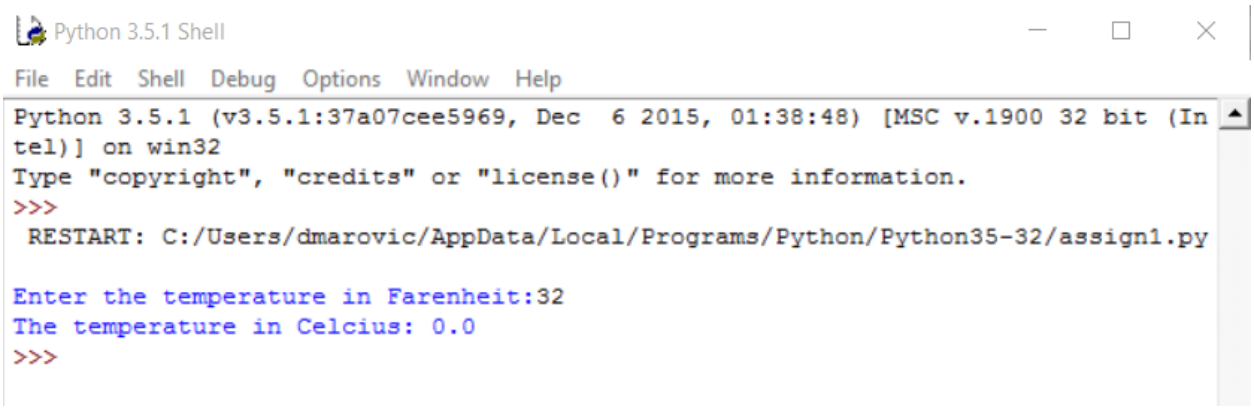

#Formula calculates the area

a = 0.5 * (length1 + length2) * height

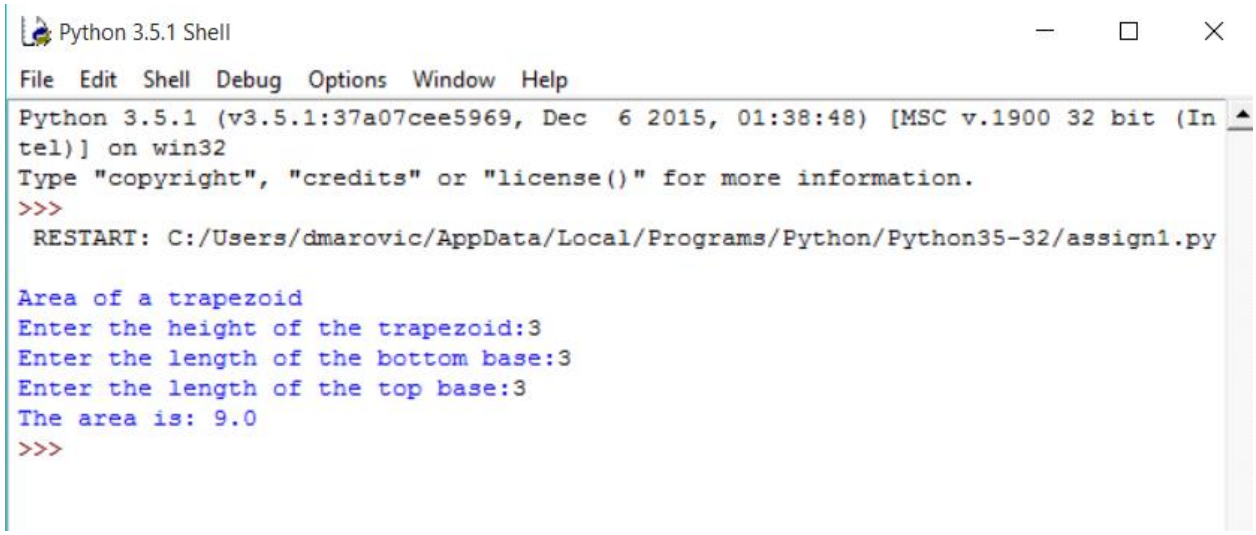

#Output result to user

print ("The area is:", a)
```

PART 1 Screenshot:



PART 2 Screenshot:


Python 3.5.1 Shell
File Edit Shell Debug Options Window Help
Python 3.5.1 (v3.5.1:37a07cee5969, Dec 6 2015, 01:38:48) [MSC v.1900 32 bit (In
tel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:/Users/dmarovic/AppData/Local/Programs/Python/Python35-32/assign1.py
Area of a trapezoid
Enter the height of the trapezoid:3
Enter the length of the bottom base:3
Enter the length of the top base:3
The area is: 9.0
>>>