Modified 08JUN22

DESIGN

```
Function WelcomeInputs():
  #Prompt user for name
  #Get user response
  #Prompt user for type of service, cleaning or yard
      #CLEAN
    #Prompt user for number of rooms (no room)
    #Provide service conditions and descriptions (quick vs. deep)
    #Validate input
      #YARD
    #Mow = $5/sqft // Edge $5/sqft // Shrub $5/sqft
    #prompt user for inputs
    #validate
Return(name,no rooms,type clean,mow,edge,shrub)
Function Clean(no rooms,type clean):
#Initialize service type cost (quick clean=15,deep clean=25)
  #Validate user input
  #Initilize base room count costs (small=80,medium=150,large=200)
#Define inputs to parameters
     IF no room \leq 4
                                  = small
    #Calculation = (small + (no rooms * type clean)
     ElseIF 5 \le \text{no room} \ge 9
                                 = medium
     #Calculation = (medium + (no rooms * type clean)
     ElseIF no room \geq 10
                                  = large
     #Calculation = (large + (no rooms * type clean)
Return(clean quote)
Function Yard(mow,edge,shrub)
  #yard quote calculation = (mow * 5) + (edge * 5) + (shrub * 5)
Return(yard quote)
Function Display(name, clean quote, yard quote)
  #if statement to choose which quote to use in for total
  #initialize senior discount of 15%
  #senior discount formula
  #Prompt user for age over 65 years
  #display quote with or without senior discount determined by user input
```

Main

```
name,no_rooms,type_clean,mow,edge,shrub = WelcomeInputs()
clean_quote = Clean(no_rooms,type_clean)
yard_quote = Yard(mow,edge,shrub)
Display(name,clean_quote,yard_quote)
main()
```

Test	Input	Expected	Output	Pass/Fail
1	alfonzo	Alfonzo	Alfonzo	Pass
	у	Yard services	Yard services	
	1000	Fees: \$15,250	Fees: \$15,250	
	2000	Discount: \$2,287.50	Discount: \$2,287.50	
	50	Total: \$12,962.50	Total: \$12,962.50	
	Senior - yes			
2	allison	Allison	Allison	Pass
	c	Cleaning services	Cleaning services	
	10 rooms	Total \$450	Total \$450	
	2 deep clean			
	Senior – no			
	\$450			
3	matthew	Matthew	Matthew	Pass
	у	Yard services	Yard services	
	-5	Invalid Input	Invalid Input	
	250	Fees: \$2750	Fees: \$2750	
	250	Discount: \$412.50	Discount: \$412.50	
	50	Total: \$2337.50	Total: \$2337.50	
	Senior - yes			

```
lDLE Shell 3.10.4
                                                                                                                                                                             em som Leony Optons Window **Hop |
Typhon 3.10.4 (tags/v3.10.4);9438120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (
MD64)] on win32
'yppe "help", "copyright", "credits" or "license()" for more information.
        = RESTART: C:\Users\Angela\Desktop\OneDrive\UMGC\CMIS 102\MOD 8\Tackett_CMIS102
Assignment Wk8 FINAL.py
                                                                                                                                                                                                                                         print("INVALID INPUT\n")
no_rooms = eval(input('HOW MANY ROOMS WILL NEED TO BE CLEANED? '))
            *This price does not reflect other fees and taxes.
                                                                                                                                                                                                                         quick_clean = 15
deep_clean = 25
                                                                                                                                                                                                                                      in range(1000):
in range(1000)
                                                                                                            ≡ Scientific
                                                                                                                                                                                          10
                                                                                                                                                                                                                                  break
elif type_clean == 2:
    type_clean = deep_clean
    break
                                                                                                                                                                         15,250
                                                                                                             MC MR M+ M- MS M*
IDLE Shell 3.10.4
           Assignment_Wk8 _FINAL.py
             (-----Home Service Cost Calculator-----)
                                                                                                                                                                                                                                                    What is your name? allison
          Welcome Allison! Are you looking for cleaning or yard services [C or Y]? c
                                                                                                                                                                                                                                                               if service == 'C' or service == 'c':
           *BASE COST PER HOME SIZE:
                                                                                                                                                                                                                                                                       mow = 0
edge = 0
shrub = 0
print(f'\n\n|--Please take a look at our prices below--|\n')
                                                                                                                                                                                                                                                                      ## Provide prices to customer
print('*BASE COST PER HOME SIZE:\n')
print(' 1-4 rooms : $80')allison
print(' 5-9 rooms : $150')
print(' 10 + rooms : $200\n')
                     QUICK CLEAN : $15 per room
DEEP CLEAN : $25 per room
           *DEEP CLEANING : quick clean parameters PLUS scrubbing tiles, sanitizing surfaces, mopping, windows, laundry, and dishes.
                                                                                                                                                                                                                                                                       Pprompt use: for number of rooms, initially service costs, and prono rooms = eval(input("NOW MANY ROOMS WILL NEED TO BE CLEANED? '))
for i in range(1000):
    if no_rooms >= 1:
        break
          *If there are any tasks outside of the outlined tasks, that will be at the service providers willingness, ability, pricing, and agreeance with client.
           HOW MANY ROOMS WILL NEED TO BE CLEANED? 10
                                                                                                                                                                                                                                                                                            e:
print("INVALID INPUT\n")
no_rooms = eval(input('HOW MANY ROOMS WILL NEED TO BE CLEAN
          WHAT TYPE OF CLEANING IS REQUIRED?
Enter 1 for QUICK CLEAN
Enter 2 for DEEP CLEAN: 2
                                                                                                                                                                                                                                                                       quick_clean = 15
deep_clean = 25
                                                                                                                                                                                                                                                                                i in range(1000):
   type_clean = eval(input('\nWHAT TYPE OF CLEANING IS REQUIRED?'
if type_clean = quick_clean
   type_clean = quick_clean
                                                                                                                                                                                                                                                                                  break

elif type_clean == 2:
    type_clean = deep_clean
    break
               -----ALLISON'S SERVICE QUOTE-----
          Service fees: $450.00
                                                                                                                                                                                                                                                                                   else:
    print("INVALID INPUT\n")
    type_clean = eval(input('\nWHAT TYPE OF CLEANING IS REQUIRED
             **This price does not reflect other fees and taxes.
          Please provide to representative when scheduling.
                                                                                                                                                                                                                                                             elif service == 'y' or service == 'y':
no_rooms = 0
type_clean = 0
```

