Douglas Rosenfield
CIS122 - W1
02/15/19
Lesson 6 Assignment

```
# Program:      Lesson 6 Girl Scout Cookies Order Form
# Programmer:   Douglas Rosenfield
# Date:         02/15/2019
# Purpose:      To create an order form using try to validate data in user inputs

#variables
import locale
locale.setlocale( locale.LC_ALL, '')

item_cnt = 0              # count of items ordered
order_total = 0.0          # accumulated total dolars
price = 3.5               # all cookies are #3.50 per box

# Banner
print("BUY COOKIES. IT IS MANDATORY.")
user = input("Please enter your name> ")

# Validate data entry
cont = "" # set cont to neither "y" nor "n"
while cont.lower() != "y" and cont.lower() != "n":
   cont = input("Would you like to place an order? (y/n) > ")

while cont.lower() == "y":
   print()
   valid_data = False #bool flag

   #input and data validation

   while not valid_data:
      # display cookie list
      print("Please choose one of our flavors. Enter the item number to choose.")
      print("num\tflavor")
      print("1. \tSavannahs")
      print("2. \tThin Mints")
      print("3. \tTag-A-Longs")
      print()
      item = input("enter item number> ")

      if item == "1" or item == "2" or item == "3":
         valid_data = True
      else:
         print ("\nThat was not a valid choice, please try again.")

   valid_data = False      #reset bool flag
```

Douglas Rosenfield
CIS122 - W1
02/15/19
Lesson 6 Assignment

```
while not valid_data:
    try:
        while not valid_data:
            qty = int(input("enter quantity> "))
            if 1 <= qty <= 10:
                valid_data = True
            else:
                print("Please enter a number between 1 and 10")
    except Exception as detail:
        print("quantity error: ", detail)
        print("Are you sure you entered a number?")

# determine totals
item_total = qty * price
fmt_total = locale.currency(item_total, grouping=True)

# determine cookie name for output display
if item == "1":
    name = "Savannah"
elif item == "2":
    name = "Thin Mints"
else:
    name = "Tag-a-longs"

print("\n{}  {}  {}  {}".format(name, qty, price, fmt_total))
print()

# verify inclusion of this item
valid_data = False

while not valid_data:
    incl = input("Would you like to add this to your order? (y/n)> ")
    print()
    if incl.lower() == "y":
        order_total = order_total + item_total #can += item_total work here?
        item_cnt += 1
        valid_data = True
        print("{} was added to your order".format(name))
    elif incl.lower() == "n":
        print ("{} was not added to your order".format(name))
        valid_data = True
    else:
        print("That was not a valid response. Please input either y or n." )
```

Douglas Rosenfield
CIS122 - W1
02/15/19
Lesson 6 Assignment

```
    # add another item?
    cont = input("\nWould you like to add another item? (y/n)> ")

fmt_total = locale.currency(order_total, grouping = True)
print("\nYou ordered {} item(s) for a total price of {}".format(item_cnt,fmt_total))
print("Thank you for your order, {}!".format(user))
```

```
douglas@Douglas-Y700 ~/assignments/CIS122/week_06  ‹master*›
$ python3 cookies.py
BUY COOKIES. IT IS MANDATORY.
Please enter your name> Doug
Would you like to place an order? (y/n) > y

Please choose one of our flavors. Enter the item number to choose.
num     flavor
1.      Savannahs
2.      Thin Mints
3.      Tag-A-Longs

enter item number> 2
enter quantity> fifteen
quantity error:  invalid literal for int() with base 10: 'fifteen'
Are you sure you entered a number?
enter quantity> 15
Please enter a number between 1 and 10
enter quantity> 10

Thin Mints  10  3.5  $35.00

Would you like to add this to your order? (y/n)> yes

That was not a valid response. Please input either y or n.
Would you like to add this to your order? (y/n)> y

Thin Mints was added to your order

Would you like to add another item? (y/n)> n

You ordered 1 item(s) for a total price of $35.00
Thank you for your order, Doug!
douglas@Douglas-Y700 ~/assignments/CIS122/week_06  ‹master*›
$
```

Douglas Rosenfield
CIS122 - W1
02/15/19
Lesson 6 Assignment

```
# Program:      Lesson 6 Calorie Counter
# Programmer:   Douglas Rosenfield
# Date:         02/15/19
# Purpose:      The purpose of this program is to count the calories of food items based on user input.

# banner
print ("welcome to my calorie counter program")

# define variables
cont = ""           # sentinel
item_cnt = int(0)   # item count
tot_cals = int(0)   # total calories

while cont.lower() != "y" and cont.lower() != "n":
    cont = input("Would you like to track a meal? (y/n)> ")

while cont.lower() == "y":
    valid_data = False  #bool flag

    # capture input
    while not valid_data:
        item_name = input("Please enter the item> ")
        if len(item_name) > 20:
            print("Not a valid food name")
        elif len(item_name) == 0:
            print("You must enter a name")
        else:
            valid_data = True

    valid_data = False
    while not valid_data:
        try:
            g_carbs = int(input("Enter grams of carbs> "))
            valid_data = True
        except Exception as detail:
            print("carbs error: ", detail)

    valid_data = False
    while not valid_data:
        try:
            g_fats = int(input("Enter grams of fats> "))
            valid_data = True
        except Exception as detail:
            print("fats error: ", detail)
```

Douglas Rosenfield
CIS122 - W1
02/15/19
Lesson 6 Assignment

```
    valid_data = False
    while not valid_data:
        try:
            g_prot = int(input("Enter grams of proteins> "))
            valid_data = True
        except Exception as detail:
            print("protein error: ", detail)

    # math below
    cals = (g_carbs * 4) + (g_carbs * 9) + (g_prot * 4)

    # confirmation of add to meal block here
    valid_data = False  # bool flag
    while not valid_data:
        incl = input("Add {} to your meal? (y/n)> ".format(item_name))
        print()
        if incl.lower() == "y":
            tot_cals = tot_cals + cals
            item_cnt += 1
            print("{} has been added to your meal!\n".format(item_name))
            valid_data = True
        elif incl.lower() == "n":
            print("{} was not added to your meal.\n".format(item_name))
            valid_data = True
        else:
            print("Your input was not valid. Please input either 'y' or 'n'.")

    # output
    print ("Total calories for {} are {}".format(item_name, cals))
    cont = input("Would you like to track another item? (y/n)> ")

print("Your meal has {} items and contains {} calories.".format(item_cnt, tot_cals))
print("Thank you, have a nice day!")
```

Douglas Rosenfield
CIS122 - W1
02/15/19
Lesson 6 Assignment

```
douglas@Douglas-Y700 ~/assignments/CIS122/week_06  ‹master*›
$ python3 calories.py
welcome to my calorie counter program
Would you like to track a meal? (y/n)> yes
Would you like to track a meal? (y/n)> y
Please enter the item> aaaaaaaaaappppppppplllllleeeeeeeeee
Not a valid food name
Please enter the item> apple
Enter grams of carbs> thirty
carbs error:  invalid literal for int() with base 10: 'thirty'
Enter grams of carbs> 30
Enter grams of fats> 45
Enter grams of proteins> 60
Add apple to your meal? (y/n)> yes

Your input was not valid. Please input either 'y' or 'n'.
Add apple to your meal? (y/n)> y

apple has been added to your meal!

Total calories for apple are 630
Would you like to track another item? (y/n)> n
Your meal has 1 items and contains 630 calories.
Thank you, have a nice day!
douglas@Douglas-Y700 ~/assignments/CIS122/week_06  ‹master*›
$
```