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Assignment 2 for CompSci 101L

Screenshots

```
Python 3.8.3 (tags/v3.8.3:6f8c832, May 13 2020, 22:20:19) [MSC v.1925 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/sethd/OneDrive/Desktop/CompSci/CompSci Labs/Python Files for Lab/Assignment 2.py
Hello World
>>>
= RESTART: C:/Users/sethd/OneDrive/Desktop/CompSci/CompSci Labs/Python Files for Lab/Assignment 2.py
Who are we calculating grades for?
Seth
Enter your Labs grade.
90
Enter your Exams grade.
85
Enter your Attendance grade.
100
63.56666666666666
>>>
= RESTART: C:/Users/sethd/OneDrive/Desktop/CompSci/CompSci Labs/Python Files for Lab/Assignment 2.py
Who are we calculating grades for?
Seth
Enter your Labs grade.
100
Enter your Exams grade.
75
Enter your Attendance grade.
90
71.66666666666667
>>>
```

First bit of output. Tried putting in numbers for the weighted grade but it wasn't adding up properly. This is done with only assigning variables and calculating the weighted grade.

```

= RESTART: C:/Users/sethd/OneDrive/Desktop/CompSci/CompSci Labs/Python Files for
  Lab/Assignment 2.py
Who are we calculating grades for?
Seth
Enter your Labs grade.
100
Enter your Exams grade.
100
Enter your Attendance grade.
100
72.0
>>>
= RESTART: C:/Users/sethd/OneDrive/Desktop/CompSci/CompSci Labs/Python Files for
  Lab/Assignment 2.py
Who are we calculating grades for?
Seth
Enter your Labs grade.
90
Enter your Exams grade.
60
Enter your Attendance grade.
100
85.0
>>>
= RESTART: C:/Users/sethd/OneDrive/Desktop/CompSci/CompSci Labs/Python Files for
  Lab/Assignment 2.py
Who are we calculating grades for?
Seth
Enter your Labs grade.
90
Enter your Exams grade.
87
Enter your Attendance grade.
98
90.19999999999999
The weighted grade for Seth is 90.19999999999999
Seth has a letter grade of A

```

Tried more attempts at calculating the weighted grade and with the last attempt, found that I have been trying to calculate the average instead of just the weighted grade, so the “85.0” is the first time it was correct and the “90.1999...” was the attempt of actually making it a floating number.

```

Enter your Labs grade.
100
Enter your Exams grade.
70
Enter your Attendance grade.
90
Traceback (most recent call last):
  File "C:/Users/sethd/OneDrive/Desktop/CompSci/CompSci Labs/Python Files for Lab/Assignment 2.py", line 29, in <module>
    while user_labs_exams >= 0 and user_labs_exams <= 100:
NameError: name 'user_labs_exams' is not defined
>>>
= RESTART: C:/Users/sethd/OneDrive/Desktop/CompSci/CompSci Labs/Python Files for Lab/Assignment 2.py
Who are we calculating grades for?
Seth
Enter your Labs grade.
100
Enter your Exams grade.
70
Enter your Attendance grade.
90
The weighted grade for Seth is 93.0
Seth has a letter grade of A
>>>
= RESTART: C:/Users/sethd/OneDrive/Desktop/CompSci/CompSci Labs/Python Files for Lab/Assignment 2.py
Who are we calculating grades for?
Seth
Enter your Labs grade.
110
Enter your Exams grade.
-50
Enter your Attendance grade.
@90
Traceback (most recent call last):
  File "C:/Users/sethd/OneDrive/Desktop/CompSci/CompSci Labs/Python Files for Lab/Assignment 2.py", line 8, in <module>
    user_attendance = int(input("Enter your Attendance grade.\n"))
ValueError: invalid literal for int() with base 10: '@90'

```

The first error message was my first attempt at making the if and while statements. The second statement was trying to act as if the user put in a character instead of a number but it turns out that the coder would get the error message.


```

===== RESTART: Shell =====
>>> 100 % 1
0
>>> 110 // 1
110
>>> (110 * 0) + 100
100
>>>
= RESTART: C:/Users/sethd/OneDrive/Desktop/CompSci/CompSci Labs/Python Files for
  Lab/Assignment 2.py
Who are we calculating grades for?
Seth
Enter your Labs grade.
110
Enter your Exams grade.
-50
Enter your Attendance grade.
2000
The lab value should have been 100 or less. It has been changed to 100.
The exam value should have been zero or greater. It has been changed to 0.
The value should have been 100 or less. It has been changed to 100.
The weighted grade for Seth is  267.0

```

I tried figuring out how to make the user's number change to 100 and 0 and figured it out and then, with the bottom run, I saw that it was calculating the weighted grade with the absurd numbers so I had to go back and change where the line for the weighted grade was, which I had to change from top to after the three while statements.

```

= RESTART: C:/Users/sethd/OneDrive/Desktop/CompSci/CompSci Labs/Python Files for
Lab/Assignment 2.py
Who are we calculating grades for?
Seth
Enter your Labs grade.
0
Enter your Exams grade.
-1
Enter your Attendance grade.
101
The exam value should have been zero or greater. It has been changed to 0.
The value should have been 100 or less. It has been changed to 100.
The weighted grade for Seth is 10.0
Seth has a letter grade of F
**** Thanks for using the Lab grade calculator ****
>>>
= RESTART: C:/Users/sethd/OneDrive/Desktop/CompSci/CompSci Labs/Python Files for
Lab/Assignment 2.py
Who are we calculating grades for?
Seth
Enter your Labs grade.
50
Enter your Exams grade.
500
Enter your Attendance grade.
-50
The exam value should have been 100 or less. It has been changed to 100.
The attendance value should have been zero or greater. It has been changed to 0.
The weighted grade for Seth is 55.0
Seth has a letter grade of F
**** Thanks for using the Lab grade calculator ****

```

Lastly, these were my attempts at making sure everything was running properly, and it was!