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###############################################################
#######
##
## CS 101 Lab
## Program # 2 week 3
## Name: Nathan Bailey
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##
## PROBLEM : Calculating Grades
##
## ALGORITHM :
print('##### WELCOME TO THE LAB GRADE CALCULATOR #####\n')
user = input('Whose grade are we calculating for today?\n')
userLabs = float(input('Please enter your Labs grade between
0-100\n'))
userExams = float(input('Please enter your Lab Exams grade
between 0-100\n'))
userAttendance = float(input('Please enter your Attendance grade
between 0-100\n'))
if 0 > userLabs:
    userLabs = 0
    print('WARNING!!, do not input values below 0, your Labs
score has been set to 0.\n')


if 100 < userLabs:
    userLabs = 100
    print('WARNING!!, do not input values above 100, your Labs
score has been set to 100.\n')


if 0 > userExams:
    userExams = 0
    print('WARNING!!, do not input values below 0, your Lab Exams
score has been set to 0.\n')


if 100 < userExams:
    userExams = 100
    print('WARNING!!, do not input values above 100, your Lab
Exams score has been set to 100.\n')


if 0 > userAttendance:
    userAttendance = 0
    print('WARNING!!, do not input values below 0, your
Attendance score has been set to 0.\n')

if 100 < userAttendance:
    userAttendance = 100
    print('WARNING!!, do not input values above 100, your
Attendance score has been set to 100.\n')
```
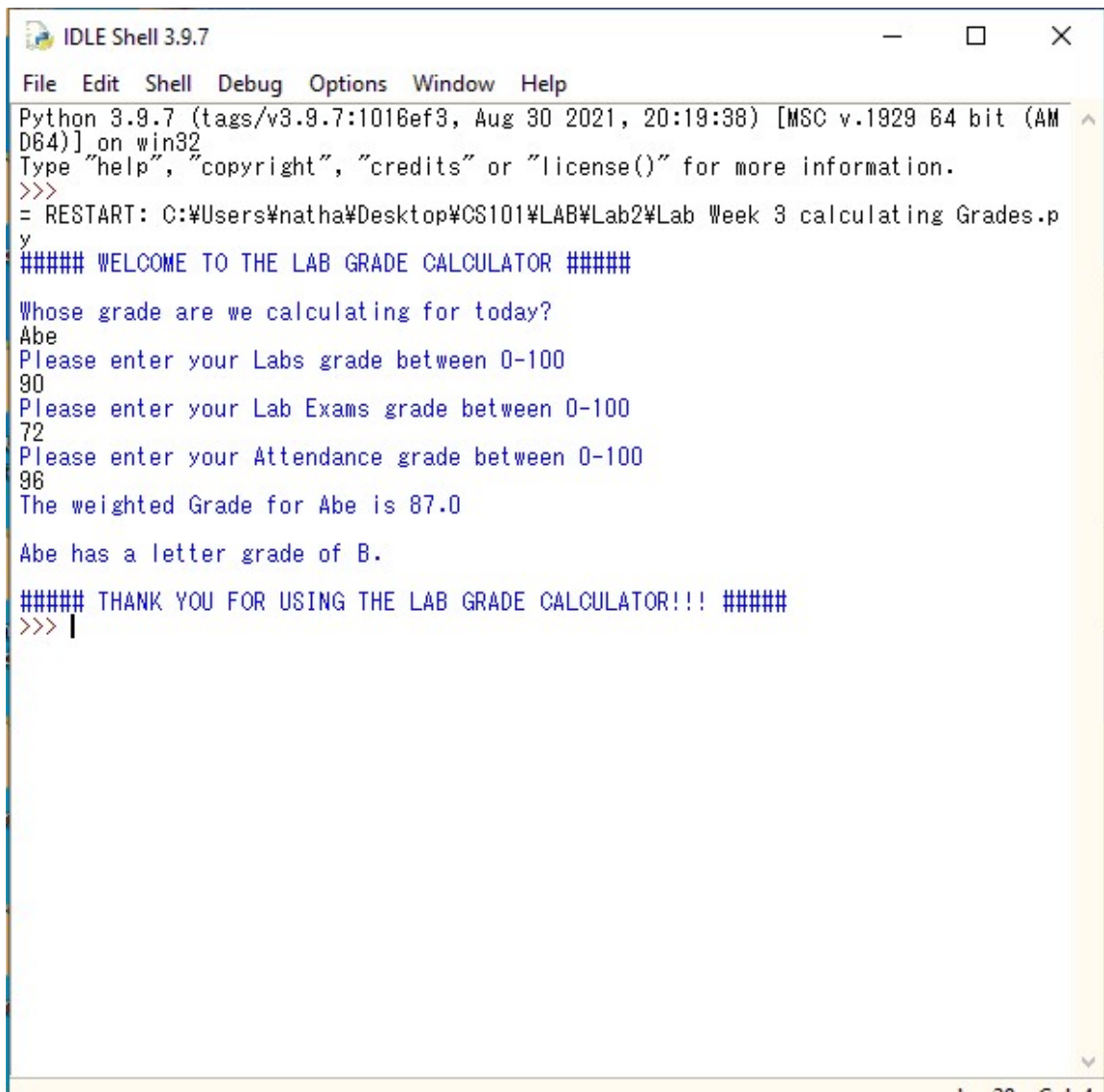
```python
labsGrade = userLabs * 0.7
examsGrade = userExams * 0.2
attendance = userAttendance * 0.1
grade = 'uknown'
weightedGrade = labsGrade + examsGrade + attendance
weightedGrade = round(weightedGrade, 2)
if 90<= weightedGrade <= 100:
    grade = 'A'
elif 80 <= weightedGrade < 90:
    grade = 'B'
elif 70 <= weightedGrade < 80:
    grade = 'C'
elif 60 <= weightedGrade < 70:
    grade = 'D'
elif 0 <= weightedGrade < 60:
    grade = 'F'
else:
    grade = 'ERROR, something went wrong'

print('The weighted Grade for {1} is {0}\n'.format(weightedGrade,
user,))
print('{} has a letter grade of {}.\n'.format(user, grade,))
print('##### THANK YOU FOR USING THE LAB GRADE CALCULATOR!!!
#####')
##
##
## ERROR HANDLING:
##      If users enter a value outside of the range of 0-100 they
##      will be warned and their incorrect inputs will be
corrected.
##
## OTHER COMMENTS:
##
##
################################################################
#######
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```
IDLE Shell 3.9.7                                          —    □    ✕

File  Edit  Shell  Debug  Options  Window  Help

Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\natha\Desktop\CS101\LAB\Lab2\Lab Week 3 calculating Grades.p
y
##### WELCOME TO THE LAB GRADE CALCULATOR #####

Whose grade are we calculating for today?
Abe
Please enter your Labs grade between 0-100
90
Please enter your Lab Exams grade between 0-100
72
Please enter your Attendance grade between 0-100
96
The weighted Grade for Abe is 87.0

Abe has a letter grade of B.

##### THANK YOU FOR USING THE LAB GRADE CALCULATOR!!! #####
>>>
```