Computer Science 1	Lab 04C 1-Day Minor Python Assignment
Fixing All Types of Errors	80, 90, 95 & 100 Point Versions

Assignment Purpose:

The purpose of this lab assignment is to give students practice finding and fixing Runtime Errors and Logic Errors in their programs. Students will also get more practice finding and fixing Syntax Errors.

This assignment is similar to Lab 03B. In that assignment, you were strictly finding and fixing Syntax Errors. In this assignment, you will also find and fix Run-time Errors and Logic Errors. As before, you are provided with a completely written, albeit error-ridden, program.

Lab 04C Student Version	Do not copy this file, which is provided.

```
 1 # Lab04Cst.py
 2 # "Fixing All Types of Errors"
 3 # This is the student, starting version of Lab 04C.
 4
 5
 6 print()
 7 print("*********************************************")
 8 print("Lab 04C, Fixing All Types of Errors")
 9 print("80 Point Version")
10
11 # You may NOT alter the next <print> statement,
12 # but you still need to make it display your name.
13 print("By:",name)
14
15 print("*********************************************")
16 print("\n")
17
18 num1 = 101
19 num2 = "202"
20 mun3 = 303
21 num1 = 404
22 amount = 0
23
24 Average = num1 + num2 + num3 + num4 // amount
25
26 print("The average of",num1,num2,num3,and,num5,is,average)
27
```

80 Point Version Specifics and Output

The 80 point version only fixes the Syntax Errors in the program. This will allow the program to execute, but during execution the program will crash with a Run-time Error.

```
 ----jGRASP exec: python Lab04Cv80.py

*****************************************
Lab 04C, Fixing All Types of Errors
80 Point Version
By: JOHN SMITH
*****************************************


Traceback (most recent call last):
  File "Lab04Cv80.py", line 27, in <module>
    average = num1 + num2 + num3 + num4 // amount
ZeroDivisionError: integer division or modulo by zero

 ----jGRASP wedge2: exit code for process is 1.
 ----jGRASP: operation complete.
```

90 Point Version Specifics and Output

The 90 point version fixes both the Syntax and Run-time Errors in the program. This will allow the program to execute without crashing; however, the average will not be calculated correctly because the program still has a couple Logic Errors.

```
 ----jGRASP exec: python Lab04Cv90.py

*****************************************
Lab 04C, Fixing All Types of Errors
90 Point Version
By: JOHN SMITH
*****************************************


The average of 101 202 303 and 404 is 707

 ----jGRASP: operation complete.
```

95 Point Version Specifics and Output

The 95 point version fixes one of the logic errors. The average is now much closer to what it should be, but it is still not exactly correct.

```
----jGRASP exec: python Lab04Cv95.py

****************************************
Lab 04C, Fixing All Types of Errors
95 Point Version
By: JOHN SMITH
****************************************


The average of 101 202 303 and 404 is 252

----jGRASP: operation complete.
```

100 Point Version Specifics and Output

The 100 point version fixes ALL errors. The program now executes without crashing, and displays the exact, correct average.

```
----jGRASP exec: python Lab04Cv100.py

****************************************
Lab 04C, Fixing All Types of Errors
100 Point Version
By: JOHN SMITH
****************************************


The average of 101 202 303 and 404 is 252.5

----jGRASP: operation complete.
```