

Computer Science 1	Lab 04B 1-Day Minor Python Assignment
The Visible Average Program	80 and 100 Point Versions
Assignment Purpose: The purpose of this program is to demonstrate the use of variables and mathematical expressions in a practical program.	

Write a program that will define 5 integer variables; compute their sum, and then compute their average. The required average is the *mean*, which is computed by dividing the sum of the integers by the quantity of the numbers. After that, you need to define 9 real number variables, and compute their average as well.

Lab 04B Student Version	Do not copy this file, which is provided.
<pre> 1 # Lab04Bst.pv 2 # "The Visible Average Program" 3 # This is the student, starting version of Lab 04B. 4 5 6 print() 7 print("*****") 8 print("Lab 04B, The Visible Average Program") 9 print("80 Point Version") 10 print("By: JOHN SMITH") # Substitute your own name here. 11 print("*****") 12 print("\n") 13 14 num1 = 11 15 16 </pre>	

80 Point Version Specifics

The **80-point** version performs one average computation with 5 numbers. These 5 numbers, as well as their sum and average, are all integers.

80 Point Version Output

```
----jGRASP exec: python Lab04Bv80.py

*****
Lab 04B, The Visible Average Program
80 Point Version
By: JOHN SMITH
*****

1st integer:  11
2nd integer:  22
3rd integer:  33
4th integer:  44
5th integer:  55
-----
Int Total:    165

Int Average = 165 / 5 = 33

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

100 Point Version Specifics

The **100-point** version adds additional program statements and variables. You now need 9 more numbers, another sum, and another average. All of these new variables will be real numbers.

100 Point Version Output

```
----jGRASP exec: python Lab04Bv100.py

*****
Lab 04B, The Visible Average Program
100 Point Version
By: JOHN SMITH
*****

1st integer:  11
2nd integer:  22
3rd integer:  33
4th integer:  44
5th integer:  55
-----
Int Total:    165

Int Average = 165 / 5 = 33

1st real num:  11.11
2nd real num:  22.22
3rd real num:  33.33
4th real num:  44.44
5th real num:  55.55
6th real num:  66.66
7th real num:  77.77
8th real num:  88.88
9th real num:  99.99
-----
Real# Total:   499.95

Real# Average = 499.95 / 9 = 55.55

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