

07.2 - Number Analysis

Write a function named `get_number_list` that collects ten floating point numbers from the user and returns them as a list. Then write the main function of your program so that it gets the list returned from a call to your `get_number_list` function and calculates the following data for the numbers in that list:

- the highest number
- the lowest number
- the total sum of the numbers
- the average of the numbers

Note: Do not call `print` in your `get_number_list` function (i.e. keep all of your `print` statements in the main function). Use the following case to test your program:

| Input | Output | | | |
|---|---------|--------|-------|---------|
| n | highest | lowest | total | average |
| 1.5, 6, 9.2, 1.31, 3.75, 3.1415, 2.3, 17, 2.33, 2.718 | 17.00 | 1.31 | 49.25 | 4.92 |

Finally, format your program to match the sample below. Your output should exactly match the sample output, character for character, including all white space and punctuation. In the sample, user input has been highlighted in **Pappy's Purple** to distinguish it from the program's output, but your user input does not need to be colored. Save your final program as `number_analysis_login.py`, where `login` is your Purdue login. Then submit it along with a screenshot showing a run of your program with the provided test case.

Terminal

```
$ python number_analysis_login.py
Enter 10 numbers:
number 1 of 10: 1.5
number 2 of 10: 6
number 3 of 10: 9.2
number 4 of 10: 1.31
number 5 of 10: 3.75
number 6 of 10: 3.1415
number 7 of 10: 2.3
number 8 of 10: 17
number 9 of 10: 2.33
number 10 of 10: 2.718
Highest number: 17.00
Lowest number: 1.31
Total: 49.25
Average: 4.92
```