

### *Handong Honor Code*

- You are responsible for understanding and complying with Handong Honor Code.
- If you copy someone else's coding or homework assignments, or use someone else's creative work without any indication, you will be given a F grade. Anyone who share the code with you would also be given a F grade.

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Jaeyoung Chun | School of Applied Artificial Intelligence | Handong Global University

## Assignment 02

### 1

You have collected math scores of 44 students. Ask a user to enter the math score of the 45th student, compute the average, and print it on the screen. Assume that users always enter some integer between 0 and 100.

```
In [1]: scores = [
    25, 32, 55, 0, 61,
    24, 89, 88, 53, 64,
    58, 80, 2, 4, 44,
    30, 6, 50, 37, 82,
    95, 22, 82, 86, 10,
    5, 70, 94, 27, 32,
    13, 63, 79, 1, 57,
    99, 55, 22, 87, 39,
    87, 17, 64, 63
]

new_score = input("Score? ")
### YOUR CODE STARTS HERE

### YOUR CODE ENDS HERE

"""
### YOUR EXPLANATION STARTS HERE

### YOUR EXPLANATION ENDS HERE
"""
```

## 2

God is good! You're allowed to drop the lowest exam score (only one score).

Ask a user to enter four scores. Drop the lowest score and print the average.

You must use the list method called `sort` for this problem. Assume that users always enter some integers between 0 and 100.

```
In [3]: score1 = input("Score 1= ")
score2 = input("Score 2= ")
score3 = input("Score 3= ")
score4 = input("Score 4= ")
#### YOUR CODE STARTS HERE

#### YOUR CODE ENDS HERE

"""
### YOUR EXPLANATION STARTS HERE

### YOUR EXPLANATION ENDS HERE
"""
```

## 3

If user enters `Psalm 23:4`, we'd like to store `Psalm` into the `book` variable, `23` to the `chapter` variable, and `4` to the `verse` variable.

A little more complex example would be `2 Corinthians 6:10`. In this particular example, `book` should be set to `2 Corinthians`, `chapter` should be set to `6`, and `verse` should be set to `10`.

```
In [27]: search = input("?")

#### YOUR CODE STARTS HERE

#### YOUR CODE ENDS HERE

print("Book =", book)
print("Chapter =", chapter)
print("Verse =", verse)

"""
### YOUR EXPLANATION STARTS HERE

### YOUR EXPLANATION ENDS HERE
"""
```

## 4

It's hard to cover all the Python topics and learn all the know-hows in one semester. So, you should be able to use other resources on the Web.

One good place is: <https://docs.python.org/3/reference/index.html>

In the class, we learned how to sort a list in ascending order and descending order. Python actually provides a way to sort a list *in user-defined order*, meaning you can define your own way of sorting.

Your job here is to sort the animals shown below in alphabetical *case-insensitive* manner. You can use your favorite search engines to find a way, but no matter how you do it, you must use the `sort` method. And make sure to mention your reference.

If you did it right, the first element of the sorted list should be `alligator`, the last should be `Snake`.

Obviously, your code should work for the given collection of animals, but it should also work for any other set of animals arbitrarily chosen (e.g. `animals = ["Tiger", "lion", "giraffe", "FOX"]`)

```
In [7]: animals = ["dog", "cat", "alligator", "cow", "Snake", "elephant", "Chicken"]

        ### YOUR CODE STARTS HERE

        ### YOUR CODE ENDS HERE

        print(animals)

        """
        ### YOUR EXPLANATION STARTS HERE

        ### YOUR EXPLANATION ENDS HERE
        """
```