Daily Assignment 3

Check next slides for how to submit!

- Write down a Python program to…
- 1. Create a 1d array M with values ranging from 2 to 26 and print M (DO NOT use numpy.array()).
- 2. Reshape M as a 5x5 matrix and print M.
- 3. Set the value of "inner" elements of the matrix M to 0 and print M.
- 4. Assign M^2 to the M and print M.
- 5. Let's call the first row of the matrix M a vector v. Calculate the magnitude of the vector v and print it.
  - Hint: $\|\mathbf{x}\| = \sqrt{(x_1^2 + x_2^2 + \cdots + x_n^2)}$
  - Hint: import math and use math.sqrt()

Expected output:

```
[ 2  3  4  5  6  7  8  9 10
11 12 13 14 15 16 17 18 19
20 21 22 23 24 25 26]

[[ 2  3  4  5  6]
 [ 7  8  9 10 11]
 [12 13 14 15 16]
 [17 18 19 20 21]
 [22 23 24 25 26]]

[[ 2  3  4  5  6]
 [ 7  0  0  0 11]
 [12  0  0  0 16]
 [17  0  0  0 21]
 [22 23 24 25 26]]

[[ 290  144  152  160  370]
 [ 256  274  292  310  328]
 [ 376  404  432  460  488]
 [ 496  534  572  610  648]
 [1490  664  712  760 1970]]

538.924855615326
```

How to Submit

- What you have to submit:
  - Only **one** .py file: ***main.py***
- Write down all your code to ***main.py***
- `> py -3 main.py` or `$ python3 main.py` should print all output to STDOUT.

How to Submit

- Submit your assignment **only through the Assignment (과제) menu of the lecture home** at portal.hanyang.ac.kr.

- **Recommended due date: Today's lecture end time**

- (Hard due date: 23:59 Today)