111B Data Science and Python Programming

Homework Assignment #0

Due: 2023/2/20 12:00:00

Since this is an advanced course for the student who has already passed the introductory course of basic programming with Python, in this homework, you are challenged to write a program that returns the answer to the corresponding question.

Problem #1: Warm up

Please write a program that answers the following questions:

1. Why are you here?
2. Why do you want to take this course?
3. What do you expect to learn in this course?

Here is the sample code:

```python
class hw0:
    def __init__(self, student_name="HengYuLaoSu",
                       student_id="0123456789",
                       department="Department of Photonics"):
        self.name = student_name
        self.id = student_id
        self.dpt = department

    def __str__(self):
        return "Student: {}, {}, {}".format(self.name, self.id,
                                            self.dpt)

    def ???(self):
        剩下你自己想
```

Please accomplish this homework with an organized code (e.g., with <u>main script</u> and <u>function script</u>). Here is a template for your code structure:

```
111B_hw0_0123456789
    ├ ans.py          # Solution of homework #0
    └ main_hw0.py     # Main script of homework #0
```

You don't need to follow this structure, just keep your main script clean.

If everything goes well, your code might get this result:

```
(nycudopcs) O:\                          \Homeworks\111B\HW0>py main_hw0.py --num 1
=========================================================================================
Student: HengYuLaoSu, 0123456789, Department of Photonics
=========================================================================================
Question 1: Why are you here?
Response:
    I am here to f*** you all.

(nycudopcs) O:\                          \Homeworks\111B\HW0>py main_hw0.py --num 2
=========================================================================================
Student: HengYuLaoSu, 0123456789, Department of Photonics
=========================================================================================
Question 2: Why do you want to take this course?
Response:
    For graduation, idiot.

(nycudopcs) O:\                          \Homeworks\111B\HW0>py main_hw0.py --num 3
=========================================================================================
Student: HengYuLaoSu, 0123456789, Department of Photonics
=========================================================================================
Question 3: What do you expect to learn in this course?
Response:
    講幹話的藝術
```

FRIENDLY REMINDER
Response in English is not necessary.
Feel free to choose any language you want!

Hand in procedure:

As we had mentioned in the lecture, you should list all your collaborators in your programs (e.g., signature). **Your signature should be attached in your main script.** Here is the template of signature:

```
"""
Created on Sun Aug 7 01:23:45 2022

@author: Xi Winnie, student ID

@collaborators: Jane Doe, her student ID
                John Doe, his student ID
"""
```

Please save your code as a ".**zip**", ".**7z**", or ".**rar**" file, where the file name should follow this format:

<div align="center">

111B_hw0_ID.zip

</div>

For example,

<div align="center">

111B_hw0_0123456789.zip

</div>

Please be aware. **We are not going to accept any homework file with wrong file name or without signature**. Please double check the content of your file.

Once you have accomplished your works, you can upload your homework to the "E3@NYCU" system. There will be a section for uploading your homework.