CoE202 Assignment 2: Polynomial Fitting

1. Overview

This second assignment is to implement polynomial fitting algorithms.

You should work on assignment using Google Colab.

For those of you who are not familiar enough with Pyplot, there is a brief introduction to how to use Pyplot.

https://matplotlib.org/stable/tutorials/introductory/pyplot.html#sphx-glr-tutorials-introductory-pyplot-py

2. Programming Details

There is a single ipynb file and a mat file that you need to work on for this assignment. For the file, there are small problems that you need to fill out.

HW2_polynomial_fitting – 6 problems

In this programming assignment, we will provide data containing 1000 data points. (data_homework2.mat) The details of how to load data from Colab has been introduced during in-class programming session.

3. Grading Policy

A. Criteria

If all of (total 6 problems) your solutions are correct, 100% score will be given. We will give you the partial grading according to how many problems you correctly solved.

B. Plagiarism Alert

Be aware of plagiarism! TAs will compare your and other student's source code. If you violate the academic conduct, probation or suspension can happen according to the KAIST school regulation article 59 and 60. https://ee.kaist.ac.kr/en/node/15401

4. Submission (Important!!)

4.1 After implementing, save your colab session (with output) and you have to download ipynb file from Google colab.

```
[ko] 구글 코랩에서 [파일] – [.ipynb 다운로드]
[en] from Google colab, [File] – [Download .ipynb]
```

4.2 If the downloaded file has .txt extension, you have to change the extension to .ipynb by simply renaming it.

```
You can rename file by press [F2], if you can't see it,
[ko] 파일 탐색기에서 [보기] - 표시/숨기기 칸의 [파일 확장명] 체크 (on 으로)
[en] from File Explorer, [View] - check [File name extensions] in Show/hide
```

4.3 You have to submit one ipynb file. Before you submit, please rename it as follows.

```
20201234_Gildong_Hong_CoE202_HW2_polynomial_fitting.ipynb
```

5. Late Submission Policy

We will **NOT** accept works that are submitted after the due date.

6. Updates/Announcements

If there is any update or error in the assignment, it will be announced on the notice board of KLMS. Please check the notice board of KLMS frequently.

7. Extra Notes

A. It is your own responsibility to read this README carefully. Submissions that do not comply with the guideline may **NOT** be graded.

B. If you have any question, please use KLMS Q&A board. We will not reply to an email unless it's a private question.

C. After implementing codes using Google Colab, you should save the output. DOUBLE CHECK if the output is saved.

D. All outputs must be reproducible. If your code does not run on Google Colab (which TAs will check), your grade may be deducted.