- Requirement  
　- Apply Simon Funk’s SVD to make predictions.  
　- Use the “ratings.csv” dataset as the experimental dataset for this exercise.  
　- Please implement the program from attachment "Ex4\_homework.py"  
　　- Implement the “mf\_sgd” function (90%)  
　- A short report to discuss your result (10%)

* PS1: You should concern with execution time, if your execution time too long(exceed than 5 minutes), we may slightly deduct your score.
* PS2: We will also use cheating software to check your code, if we find that someone code is too similar with other student, we will not give your score.  
  **- Please submit dataset, your code, training\_loss.png, and report to ee-class**  
  **- Don't zip dataset, your code, and report !!!**  
  **- Please upload files separate, you should upload the following files:**  
  **- ratings.csv**  
  **- code\_<your\_id>.py**  
  - e.g. code\_109522026.py  
  **- report\_<your\_id>.pdf**  
  - e.g. report\_109522026.pdf  
  **- training\_loss.png**  
          - The image will be automatically generated by plot\_training\_loss()  
  **- Due date: 12/20 23:59**