

### Instructions

Answer the questions in full for the maximum points (8 points + 2 bonus points). Write your answer in a **Python 3** source code file, which has the `.py` file extension and submit the file into the return-box in Moodle.

Use the file "Filmography.txt" as the data file for your assignment. Place the file in the active working directory so that you can refer to it as "Filmography.txt" (without the path name) in your program. The columns of the file contain the following information:

Release date	Title	Credit as					Notes
		Composer	Producer	Writer	Director	Role	

### Questions

1. Implement a class `Filmography` that meets the following specifications:  
1) When instantiated, the constructor method (`__init__`) expects to get the name of the data file (a filmography), opens the file and reads the data into a suitable instance variable or variables. Hide all instance variables from direct access from the outside and write methods for retrieval of every available detail for each film in the filmography. Write a *test driver*, a piece of code that tests the operation of your class (see lecture 6). (4 p)
2. Define a method with a generator to pass all films of the filmography as a single set. (2 p)
3. Implement error handling: handle exceptions that may result from opening files and reading input from them. (2 p)
4. BONUS: Define another class `Film`, which you then use in the `Filmography` to represent the films. (2 p)

### Deadline

The deadline for the assignment is 28.11.2017.