Programming Languages 2
Lesson 7

Finish a project to represent a diary.

1. Download the project from the homepage of the class.

2. Implement the `Diary` interface so that the methods of it work as they name tell.
   `AddEntry` adds a new entry to the diary
   `printAllEntries` prints out all entries of the diary

3. Override the toString method of the Entry class. It has to print out the date and the text in the following format:

```
mm-dd-yyyy
texttexttexttexttexttexttexttexttexttext
texttexttexttexttexttexttext
texttexttexttexttexttexttexttext...
```

4. Add a `setDate` method to the Entry class. It gets a `String`, and sets the date of the `Entry`. The required format is `mm-dd-yyyyy`

5. Add a parameterized constructor to the `Entry` class. It gets two String parameters, with which it sets the properties of the `Entry`.

6. Create a new custom exception named `WrongDateException`. Throw this Exception from the `setDate` method if the numbers representing the month and the day are out of their limits.

7. Catch the `WrongDateException` in the main class if it appears. In the catch branch print out that the date format is wrong...

8. Override the `equals` method of he Entry class. Two entries are the same if their dates are equal.

9. Modify the `addEntry` method of the `MyDiary` class so that if the user tries to add an entry with an already existing date, the method concatenates the text to the old entry instead of creating a new one.

10. Add an entry to the diary to the day 11-23-2013, and check the result.