Scala in Practice

lab 05

Acceptance criteria:

Create Scala program with:

```
• Package plugins with abstractions for text manipulations:
     trait Reverting = ??? //reverts text
     trait LowerCasing = ??? //converts all chars in text to
     lowerCase
     trait SingleSpacing = ??? //removes all duplicated spaces in
     text, example: "ala ma kota" => "ala ma kota"
     trait NoSpacing = ??? //remove all spaces in text, example:
     "ala ma kota" => "alamakota"
     trait DuplicateRemoval = ??? //removes all chars which occur
     more than once, example: "alzaa cda" => "lzcd"
     trait Rotating = ??? //rotates text once, example: "abc" =>
     "cab"
     trait Doubling = ??? //duplicates every second char in text,
     example: "abcd" => "abbcdd"
     trait Shortening = ??? //removes every second char in text,
     example: "ab cd" => "a d"
```

 object Actions with abstractions for several actions using combinations of plugins (ActionX.plugin() should invoke the computation):

```
val actionA: Pluginable = ??? //plugin applying plugins with
order: SingleSpacing => Doubling => Shortening
```

val actionB: Pluginable = ??? //plugin applying plugins with
order: NoSpacing => Shortening => Doubling

val actionC: Pluginable = ??? //plugin applying plugins with
order: LowerCasing => Doubling

val actionD: Pluginable = ??? //plugin applying plugins with
order: DuplicateRemoval => Rotating

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val actionE: Pluginable = ??? //plugin applying plugins with
order: NoSpacing => Shortening => Doubling => Reverting

val actionF: Pluginable = ??? // plugin applying plugin
Rotating 5-times

- val actionG: Pluginable = ??? //plugin applying plugins with order: actionA => actionB
- Create *application entry-point* object with some example tests for the above implementation

Note1: Assume that your code will be extensible in the future. Adding new plugins & actions should be straightforward.

Note2: Dont use any nulls & vars

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