

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" => "abbcd"

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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