Lab03/Lab04: Hints

How to set up your environment

Check out from Git the template project.
Step-by-step instructions not available yet.

Testing procedure

Perform these steps, to see what grade you would get.

1. Open a terminal window in any empty directory. Get code from your repository:

    ```
    git clone <repository-url>
    ```

2. Add two lines to the `build.sbt` file – to enable HTML report generation (follow the link, if you need to see the whole SBT buildfile).

    ```
    libraryDependencies += "com.vladsch.flexmark" % "flexmark-all" % "0.35.10"
    testOptions in Test += Tests.Argument(TestFrameworks.ScalaTest, "-h", "target/test-reports")
    ```

3. Copy the testfiles `KMPtheprivateTest.scala` and `BMtheprivateTest.scala` under your

    ```
    $ProjectRoot/src/test/scala/lv/rbs/ds/lab03/
    ```

4. Run from the commandline:

    ```
    sbt
    testOnly *theprivateTest
    ```

5. After this the test reports as HTML are visible under subdirectory `target`.

Some things to avoid

In short, follow all the naming conventions carefully.

(1) **Wrong package names.**
     Instead of "lv.rbs.ds.lab03" do not rename it into "lv.rbs.ds.lab04", or "scala.lv.rbs.ds.lab03", or "main.scala.lv.rbs.ds.lab03".

(2) **Wrong directory structure.** If your IDE (such as IntelliJ Idea) complains, find a way to set up your project so that it matches the Maven/SBT directory layout. Broken Maven directory structure - the classfiles located outside /src/main/scala... directory.

(3) **Wrong class names**
     Do not use "BoyerMoore.scala" instead of "BMmatcher.scala" etc. It breaks all the tests.

(4) **Wrong function names**
     Do not use "`get_Json(...)`" or anything strange instead of `toJson(...)`.

(5) Verify that you return right value type. (If it is a list, it should be the right kind of list; and it should contain the right kind of tuples.)

(6) **JSON files generated in ad-hoc ways.** Handmade JSON may contain broken key names with extra spaces, and other syntax that renders them unusable.