

COMP220/285 Lab sessions 6-7

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JUnit Primer and imitation of the command line JUnit work in Ant

Please, follow slides [Ant, Testing and JUnit \(1\)](#).

Start with creating the file `SimpleTest.java` from **Slide 6** and then compile and run this java class *from the command line* according to **Slides 11,12** with the described variations. Of course, you should read and understand all the relevant explanations.

Follow the slides and do all the exercises.

Start by creating

`mybuild.xml`

from **Slide 14** compile and run commands considered above. Of course, you should include several additional targets, properties, etc. in this build file to make it work..

For example, your `init` target should look like

```
<target name="init">
  <!-- making directory build\classes -->
  <mkdir dir="${build.classes.dir123456789}" />
</target>
```

with using the property `build.classes.dir123456789` for the directory `build\classes`. This also means that you should set this property (and many others) somewhere at the beginning of your build file by using `<property>` task.

You should use in your file only properties with `${...}` instead of fixed directory names!

Please, follow slides [Ant, Testing and JUnit \(2\)](#) and do all actions suggested there.

In particular, create and run JUnit test case `setUpTearDownTest.java`

as in **Slides 6-8**.

Pay attention to annotations `@Test`, `@Before`, `@After`, methods `setUp()`, `tearDown()`, `testXXX()` and assertions methods used.

Read also preceding and following slides to understand all the concepts and do all the required actions.

Capturing test results

Please, follow slides [Ant, Testing and JUnit - Capturing test results](#).

Try to follow all exercises in these slides and make sure you understand each step.

You should be able to finally automatically create HTML report of your tests. Note, that all the preliminary steps are very important to understanding how we have approached to the final version (the target `test` on **Slides 20, 21**). **Now, instead of not so pleasant extracting from a console the results of testing we will have testing reports in a very convenient HTML form!**
