

# Application as Java Developer

## Sidenis Test task

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### Explanation of my solution:

Hello there,

I would like to explain some small details of the solution that I have implemented:

- Seeing that some lights have a „value“ of 5, and others of one, I have seen immediately that the number of lights illuminated could be calculated simply by using the operators „/“ (the first ones) and „%“ (module, for the others)

- Although the methods to convert the hours and the minutes are very similar, I haven't refactored them into one common method (using some extra parameters to specify what was going to be converted, the limits ...), for two reasons:

  - \* the benefit in terms of spared lines of code would be very small

  - \* and especially: now the logic is quite similar, but it could be that this clock was changed in the future, and the methods were not so similar (I don't think so, but it could be that another clock was made ... and I don't think this either: just wanted to say that I think that converting hours and minutes are not exactly the same, and I prefer different methods for different things).

- I don't like Strings constants in the middle of the code, so I have put them at the beginning. Of course in a real project they would come in bundles, in different languages, etc.

(Yes, I know that I should program this task as a „real project“ ... but I honestly think that I don't have to „exaggerate“)

- I have modified the received .pom file to add the Maven surefire plugin, in order to generate a report of the executed tests (just for fun)

Nothing more, I hope that with this simple program you can get an idea of my coding style.

Best regards,

Fran

PS: As I told Anton, I have developed it under Debian 8.0, using Eclipse Mars

## Annex: Generation of a html report with Maven surefire plugin

