# Software Quality and Testing Computer Lab 3

## Programming Assignment – String Calculator

### Instructions:

Follow these instructions carefully step by step.

**Get the assignment files:**

* Locate the repository: Go to https://github.com/SQATLab2016/StringCalculator
* Create a fork of this repository
* Import into Eclipse
  + In Eclipse: Select File > Import
  + In Import Window: Select Git > Projects from Git
  + In Import Projects from Git Window: Select Clone URI
  + In the next window:
    - URI: paste the URL for your repository The URL of your repo is available at your repository’s web page on Github under HTTPS clone URL on the right-hand side of the page. Link should be https://github.com/[YourGithubaccountName]/StringCalculator.git
    - In the Branch Selection window select master branch
    - Proceed with the default options
  + Open StringCalculator.java file

**Open Besouro Plugin:**

* In Eclipse: Select Window > Show View > Other
* In Show View Dialog: Select Other > episodeView
* In episodeView Window: Click green play button to start recording

Add a slice

Add a test

Run the test(s)

Debug and fix

[Pass]

[Fail]

[Development stops]

Refactor

*(if needed)*

Figure 1Iterative Test-last Development

**Implementation**

* Implement the task according to the requirements described in task description following **Iterative Test-last Development** methodology.
  + Focus on slicing the requirements into small user-stories and implement a user-story in each cycle.
  + Write unit tests immediately after you complete a user-story

**Submit your work**

* In episodeView window> Click red stop button to stop recording
* Commit and Push:
  + In Eclipse: Right-click project in the package explorer. Then Select **Team > Commit**
  + Write “Project Finished” in commit message textbox
  + In Commit Changes window click **Commit and Push**
  + On your Github repository page check the status to verify that it is up to date with your local copy
  + On your Github repository page check last commit message is “assignment finished”
* Create Pull Request
  + On your Github repository page create a pull request
    - Click New Pull Request button located above the listing of repository files

NOTE:

If you encounter an error “There are no staged files” during commit, select all the files in *Unstaged changes* area and move them to *Staged area* in commit window.

You can disable staging view:

* Open Window > Preferences
* In preferences window open Team>Git>Commiting
* Uncheck “Use staging view …”