**[ JAVA COURSE ] MINI PROJECT**

**Writing a mini program demonstrates the test framework**

**[ Objective ]**

In DEK we normally use Java to implement the test cases. There is a common framework, which is used in many Ericsson projects, is JCAT to help us verify the implementation by our Function Test, System Test, and Joint Integration Test (JIT). As a result, being familiar with Java and understanding the principle of testing needs is mandatory for a developer. So this project will help you understand the basic knowledge how we implemented the tests such as Function Test.

**[ Requirement]**

Reading the target.xml, which is input for the program, and parsing the xml file

Connecting to the server whose address is specified in the target.xml file and complete three simple use cases below.

***Use case 1:***

1. Executing a command “cluster reboot –a –q”
2. Waiting for cluster reboot
3. Use case is passed if the cluster reboots successfully

***Use case 2:***

1. Copy a script file to the server
2. Executing the script file and get the result of cluster status
3. User case is passed if the file is transfer successfully

***User Case 3:***

1. Get every WARN log messages in /var/log/message file.
2. Use case is passed if there is less than two log lines of WARN
3. Use case is failed if there is more than one log line of WARN

**[ Output ]**

1. Each of Use Cases will write the result into an html file
2. The template will be provided by file result.xml

**[ Information ]**

Please clone the project from Github

<https://github.com/kenzaburo/Jtest>

Branch name: master

Two people will corporate to complete the project if needed, so you have to create a branch “[Your team name] “\_javabasic1”

There are a lot of java SSH library but you could use jsch library

Please submit your code before next session of training – the JCAT framework

“THE PROJECT IS OPEN PROJECT, PLEASE MAKE IT AS BEST AS YOU CAN”