

Report Number:	4	
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Summary:

- Understand tool was setup
- Command-line programming of Understand was practiced
- Python API on Windows was used
- Some Python APIs for a custom report was written
- The new level of granularities for reports was applied
- The File-level report is almost done

Overall Achievements:

In the first step, I had some difficulties in set upping the Understand tool. I chose different environments, and eventually, the following environment was the best match for the tool:

- Operating system: Windows
- Python tool: Pycharm using python 3

There are some other challenges in Understand command-line programming. According to the system, you may need to try different formats of the code to run the program. In the basic tutorial of the tool, there is a sample of the command formats, but it did not apply to my system, and I found my proper format.

- Suggested Format: und create myDb.udb
- Used Format: und create -db myDb

Some basic reports were extracted and based on the analysis, we took a step forward to the custom reports.

Custom reports are divided into three levels of file-level, class-level, and function-level.

In the last week, from 03.28.2020 to 04.03.2020, I was working on the custom reports. The file-level of the reports is almost done.

All reports and codes are available from the GitHub repository: <https://github.com/NazaninBayati/SCA>.

Next steps:

- Class-level and Function-level custom reports should be completed.