CODE COVER

SQA – Assignment 02

Presentation

Agenda

- Introduction
- Installation & Configuration of tool
- Comparison between other tools

INTRODUCTION

- CodeCover is an open source glass-box testing tool for Java and COBOL. Glass box testing is a “testing technique that examines the program structure and derives test data from the program logic/code.” CodeCover measures statement, branch, loop, and strict condition coverage.

- CodeCover is well integrated with a host of development and testing tools including Ant, Jenkins, JUnit, Eclipse, and more. It is licensed under the Eclipse Public Licence (EPL).

INSTALLATION & CONFIGURATION

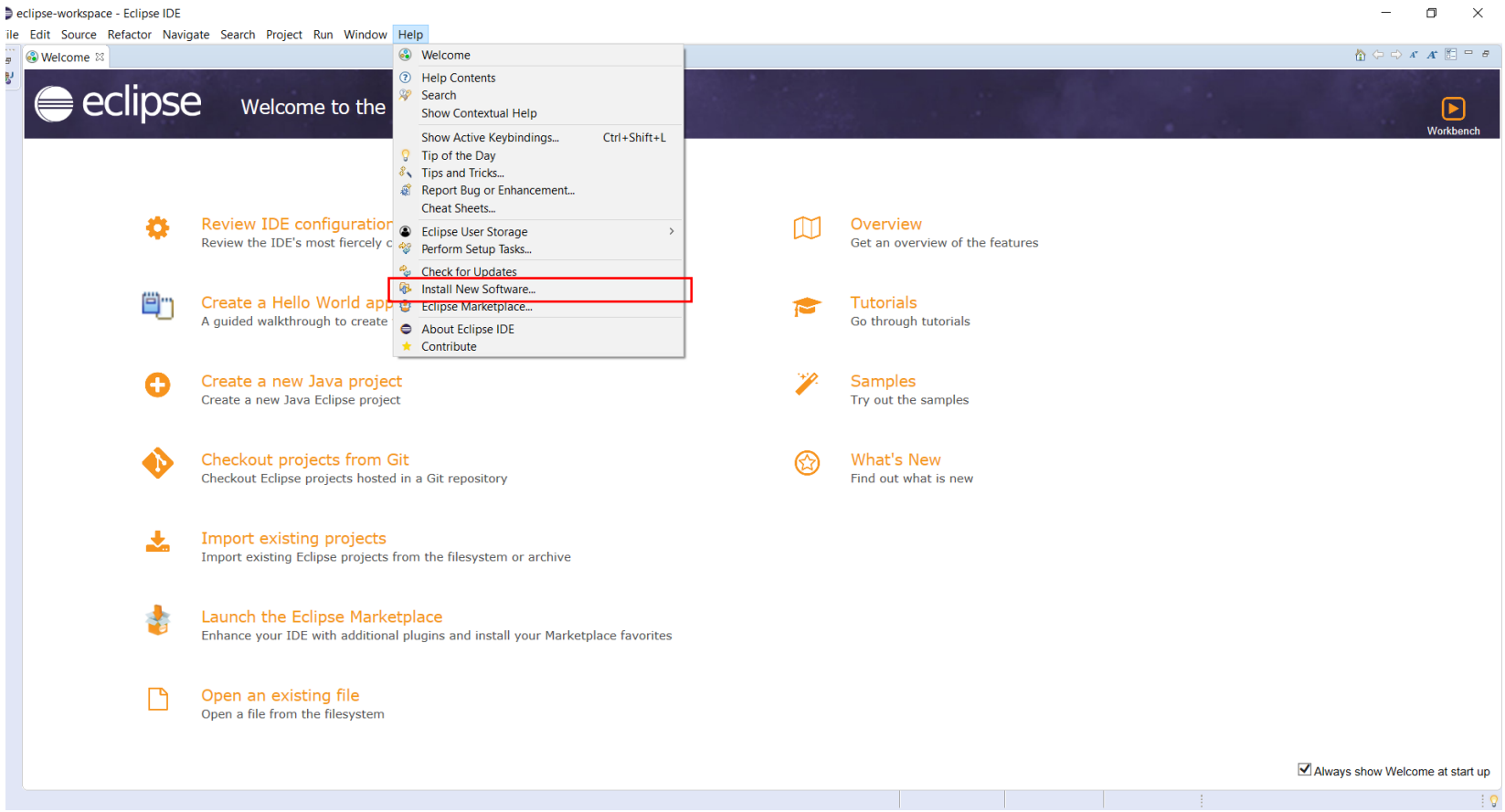
CodeCover can be installed as both stand alone & as a plugin to Eclipse.

What are the Prerequisite ?

- ✓ Java Runtime Environment or Java Development Kit 5.0 (also known as 1.5) or newer
- ✓ Eclipse 3.3 or higher (for Eclipse Plugin only)

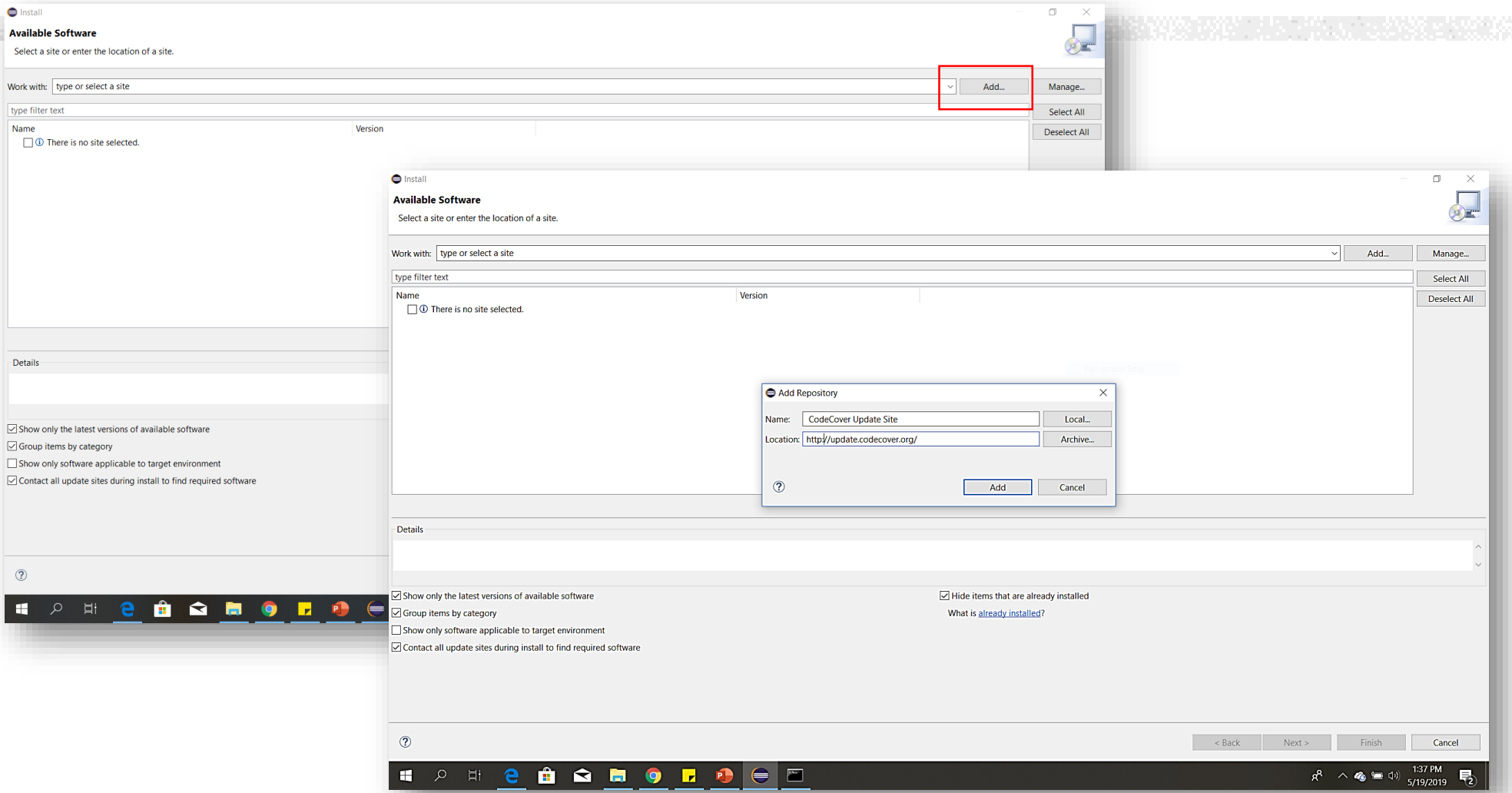
USING AS AN ECLIPSE PLUGIN

1 Run Eclipse IDE -> Help -> Install New Software



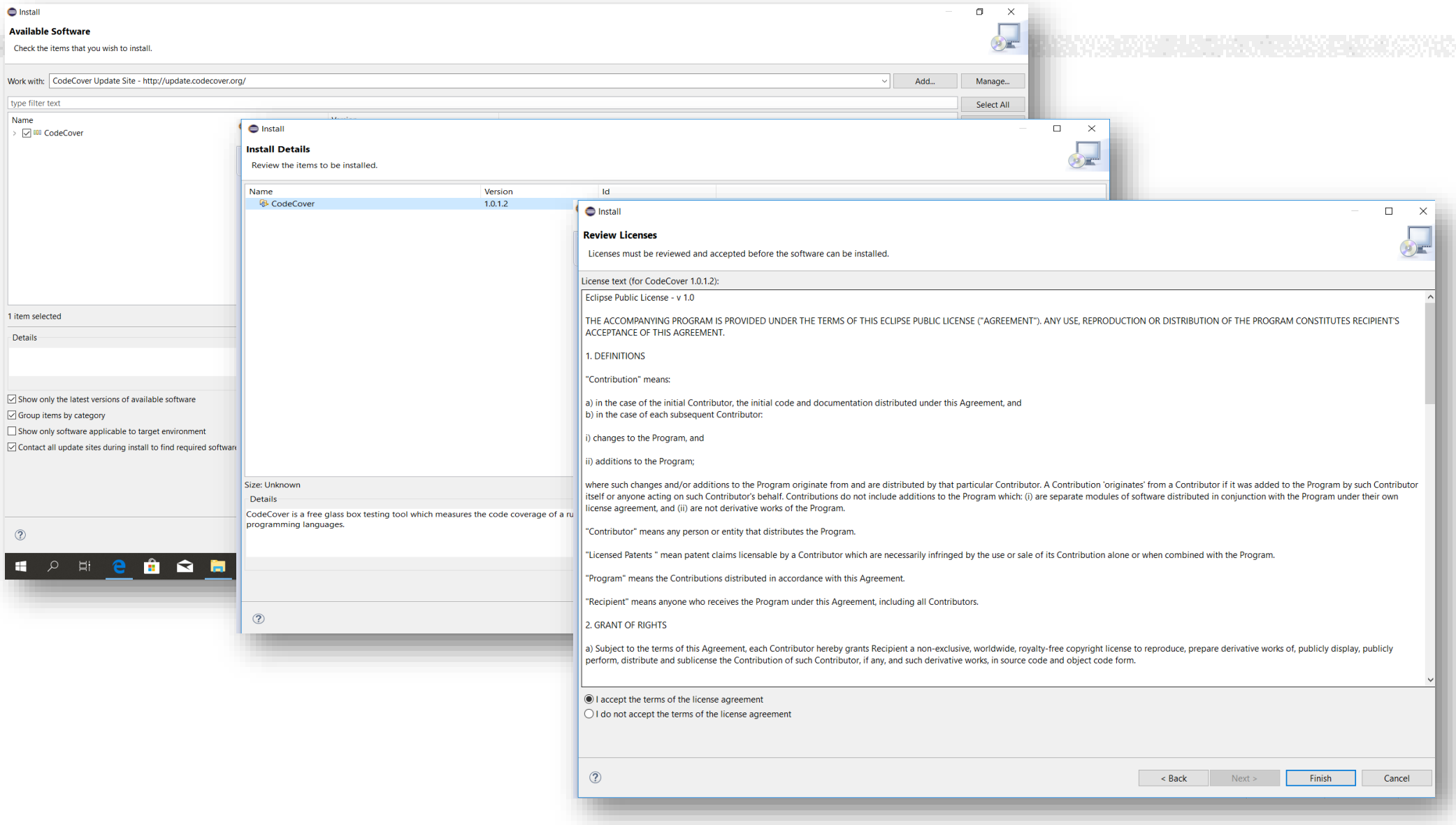
2

Add -> Add repository -> Provide Details -> Add



3

Tick the checkbox for CodeCover-> Next -> Proceed Next-> Accept the license -> Finish



COMPARISON BETWEEN OTHER TOOLS

JACOCO
Java Code Coverage

- ✓ This is an open source code coverage tool.
- ✓ It gives good performance for large-scale Java projects at a minimum runtime.
- ✓ It requires less implementation with minimum dependencies on external libraries and resources.
- ✓ There are many tools which support JaCoCo like Jenkins, Netbeans, Gradle, TeamCity, VS TEAM SERVICES, etc
- ✓ The report generated by JaCoCo is colorful and easy to understand.

Cobertura

- ✓ It is an open source code coverage tool.
- ✓ Its reports are easy to understand with options to filter as per the need.
- ✓ It is well designed for developers as well as testers.

Cobertura

NCover

- ✓ It is the best code coverage tool for .Net software.
- ✓ It has 4 years of maturity and is a very fast tool.
- ✓ The support is very active and keeps on updating the releases with some new fixes and features.
- ✓ It is very easy to create code coverage data with this tool.
- ✓ It is good for manual as well as automated code coverage testing.

Why CodeCover?

- ✓ It is a free tool which can be used for code coverage.
- ✓ It is used to enhance the quality of testing and to create new test cases.
- ✓ Coverage can be based on traditional coverage such as code coverage or more relevant combinatorial coverage using Combinatorial Coverage Measurement (CCM) tool for combinatorial testing.

Thank You