Installation of eclipse Software

Procedure:

step-1 Go to official Eclipse download page

step-2 Choose the Eclipse IDE for Java developers packages

step-3 Download the installer for your operating System
Run the installer

step-4: Execute the download installer

step-5 Follow the on-screen instraction to set up Eclipse

step-6 select IDE package

step-7: During installation, choose the package that includes features for Java development.

step-8: Specify the installation direction and any other configuration setting as needed

step-9 Install eclipse

step-10 Allow the installer to download and install eclipse based on your selected configuration.

step-11 Lauch eclipse

step-12 Once the installation is complete. Launch eclipse

step-13 Set workspace

step-14 Choose a workspace where your projects will be stored

step-15 Install plugins for testing

step-16 Install relevant plugins

step-17 Create a new project or import existing project into eclipse

Junit Execution Procedure

It involves followings steps:

1) Writing Test cases:

Create test classes containing methods annotated with "@Test"

2) compile code and Test:

compile your source code and test classes

3) Run tests:

Execute tests using a Junit runner. Such as "Junitcore" or IDE's built in test runner

4) stepup and Teardown:

Utilizes "@Before" and "@After" annotations for each stepup and Teardown

5) Assertions:

Use various assertions methods like "assert equals", "assert true".

6) Annotations:

Leverage annations like "@Ignore" to skip specific test with "@RunWith"

7) Test suites:

Group related test classes into test suites using "@RunWith (Suite.class)"

8) Parameterized Tests:

Employ "@ Parameterized" for running the same test with multiple inputs

9) Reporting:

Junit generates test reports indicating passed or failed tests.

10) Integration with Build Tools:

Integration Junit into build tools like Maven or Gradle for seamless execution as part of the build process.