

INSTALLATION OF ECLIPSE SOFTWARE

PROCEDURE:-

- STEP 1:- Go to official Eclipse download page.
- STEP 2:- Choose the Eclipse IDE for Java developers package
- STEP 3:- Download the installer for your operating system. Run the installer.
- STEP 4:- Execute the download installer.
- STEP 5:- Follow the on-screen instructions 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 settings as needed.
- STEP 9:- Install eclipse.
- STEP 10:- Allow the installer to download and install eclipse based on your selected configuration.

STEP 11:- Launch 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 projects into eclipse.

J-UNIT EXECUTION :-

PROCEDURE :-

STEP 1:- Writing test cases :

Create test classes containing methods annotated with @Test.

Define assertions within these methods to verify expected behaviour.

STEP 2 :- Compile your code and Test.

Run tests :

Execute test using a JUnit runner, such as JUnitcore or an IDE's built-in test runner.

JUnit discovers and runs all methods annotated with @Test.

STEP 3:- Setup and Teardown.

utilize `@Before` and `@After` annotations for setup and teardown tasks. `@After` method run after each test.

STEP 4:- Assertions.

Use various assertion methods provided by JUnit (eg. `assertEquals`) to validate expected outcomes.

STEP 5:- Annotations.

Leverage annotations like `@Ignore` to skip specific tests, and `@RunWith` for custom test runners.

STEP 6:- Test suites

Group related test cases into test suite using `@RunWith(Suite.class)`

STEP 7:- Parameterized tests.

Employ `@parameterized` for running the same test with multiple inputs.

STEP 8:- Reporting.

JUnit reports test, indicating passed or failed tests, facilitating analysis.