

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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ECLIPSE IDE

• Introduction to Eclipse IDE

- Overview of Eclipse IDE
- History and evolution
- Features and advantages

• Getting Started with Eclipse

- Downloading and installing Eclipse IDE
- Setting up workspaces and projects
- Understanding the Eclipse user interface

• Basic Concepts

- Workbench, perspectives, and views
- Editors and views management
- Navigating projects and files

• Working with Projects

- Creating, importing, and exporting projects
- Organizing projects into working sets
- Configuring project properties

- **Editing and Refactoring**

- Text editing features
- Code templates and snippets
- Refactoring tools and techniques

- **Debugging**

- Setting breakpoints and watches
- Debugging perspectives and views
- Using the debugger effectively

- **Version Control Integration**

- Integrating with Git, SVN, or other version control systems
- Managing repositories and commits
- Branching, merging, and conflict resolution

- **Advanced Editing and Customization**

- Code completion and templates customization
- Key bindings and shortcuts
- Using plugins and extensions

- **Advanced Debugging Techniques**

- Remote debugging and attaching
- Conditional breakpoints and expressions
- Debugging multi-threaded applications

- **Working with Plug-in Development Environment (PDE)**

- Creating advanced plugins
- Contributing to extension points
- Dependency injection and OSGi concepts

- **Customizing Perspectives and Views**

- Creating custom perspectives
- Extending views and editors
- Perspective layouts and save/restore

- **Performance Profiling and Optimization**

- Profiling applications with Eclipse TPTP
- Memory and CPU usage analysis
- Optimizing code and resource usage

- **Advanced Refactoring Techniques**

- Extracting methods and classes
- Renaming and moving resources
- Working with change history and impact analysis

- **Working with Modeling Tools (EMF)**

- Introduction to Eclipse Modeling Framework (EMF)
- Creating domain models and editors
- Generating code from models