Apache Ant Advance Training

Day - 1	Day - 2
Introduction ○ What is Ant? ○ What makes Ant so special? ○ When to use Ant ○ When not to use Ant ○ Alternatives to Ant **A First Ant build** ○ Defining the first project ○ Step zero: creating the project directory ○ Step one: verifying the tools are in place ○ Step two: writing your first Ant build file ○ Step three: running your first build ○ Step four: imposing structure ○ Step five: running our program ○ Ant command-line options ○ Examining the final build file ○ Running the build under an IDE	**Testing with JUnit** ○ What is testing, and why do it? ○ Introducing the application ○ How to test a program ○ Introducing JUnit ○ The JUnit task: ○ Generating HTML test reports ○ Advanced techniques ○ Best practices **Packaging Projects** ○ Working with files ○ Introducing mappers ○ Modifying files as you go ○ Preparing to package ○ Creating JAR files

Day - 3	Day - 4

Distributing an Application
 	
   ○ Preparing for distribution
   ○ FTP-based distribution of a packaged application
   ○ Email-based distribution of a packaged application
   ○ Secure distribution with SSH and SCP
   ○ HTTP download
   ○ Distribution over multiple channels
 	
Putting It All Together
 	
   ○ How to write good build files
   ○ Building the diary library
   ○ Adopting Ant
   ○ Building an existing project under Ant
	Beyond Ant? s Core Tasks
	
	   ○ The many different categories of Ant tasks
	   ○ Installing optional tasks
	   ○ Optional tasks in action
	   ○ Software configuration management under Ant
	   ○ Using third-party tasks
	   ○ The Ant-contrib tasks
	   ○ Code auditing with Check style
	
	Working with Big Projects
	
	   ○ Master builds: managing large projects
	   ○ Controlling child project builds
	   ○ Advanced delegation
	   ○ Inheriting build files through
	   ○ Applying
	   ○ Ant?s macro facilities
	   ○ Writing macros with

Day - 5

- **Managing Dependencies**
    - Introducing Ivy
    - Installing Ivy
    - Resolving, reporting, and retrieving
    - Working across projects with Ivy

- **Developing for the Web**
    - Developing a web application
    - Building the WAR file
    - Deployment
    - What You Can Expect