📦 Concept of Continuous Integration and Continuous Delivery (CI/CD)

**Continuous Integration (CI)**:  
Developers regularly push code changes to a shared GitHub repository. Jenkins automatically detects these changes and runs builds and performance tests (using JMeter). This helps catch issues early and speeds up feedback.

**Continuous Delivery (CD)**:  
Once the build and test steps succeed, Jenkins prepares the application for deployment into a production-like environment. The goal is to always keep the software in a deployable state.

**Benefits**:

* Faster feedback loops
* Early bug detection
* Automated workflows
* Improved code quality
* Quicker and more confident releases
* Reduced manual effort