

Introduction to Software Testing topics:

Introduction to Testing, Terminologies, The difficulties of Testing

Writing a Test Suite with JUnit, Case Study assignment for writing a test suit using JUnit

Testing Principles, V Model, Systematic Testing, Structural Testing, Mutation Testing

Testing Plan, Stages of Software Testing Process, Risk-Based Testing Planning, Software Defect Reports, Case Study assignment for making a Testing plan

Test doubles: Dummy object, Test Stubs, Fake Objects, Mock Objects, Spy Objects, Using Gradle, Using Mockito, Using JaCoCo

Case Study assignment with JUnit, Gradle, Mockito and Jacoco

Flakey Test cases, Testing Concurrent programs