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| **Section** | **Lecture** | **Slide** | **Slide Content** | **Transcript** |
| Introduction | Introduction to Building Automation Frameworks using Selenium and Java | About Me |  |  |
| Why I created this course |  |  |
| What to expect from this course |  |  |
| Java Programming | Basic Java | Creating a class |  |  |
| static keyword |  |  |
| this keyword |  |  |
| super keyword |  |  |
| final keyword |  |  |
| Conditional and Controlling statements |  |  |
| Working with arrays |  |  |
| Creating an abstract class |  |  |
| Creating an interface and implementation |  |  |
| File Handling |  |  |
| String and String Manipulations |  |  |
| Regular Expression handling |  |  |
| OOPS Concepts | Inheritance |  |  |
| Polymorphism |  |  |
| Abstraction |  |  |
| Encapsulation |  |  |
| Advanced Java | Collections framework |  |  |
| Generics |  |  |
| Reflections |  |  |
| SOLID principles | Introduction |  |  |
| Single Responsibility Principle |  |  |
| Open for extension, Closed for modification Principle |  |  |
| Liskov Substitution Principle |  |  |
| Interface Segregation Principle |  |  |
| Dependency Inversion Principle |  |  |
| Design Patterns using the SOLID principles |  |  |
| Frameworks | Types of Automation Frameworks | Data driven Framework |  |  |
| Keyword driven Framework |  |  |
| Behaviour Driven Framework |  |  |
| Hybrid Framework |  |  |
| Different components of an Automation Framework | Selenium Webdriver |  |  |
| TestNG Framework |  |  |
| Maven |  |  |
| Dataproviders |  |  |
| Custom Page Creation |  |  |
| Object Repository Management |  |  |
| Reporting |  |  |
| Continuous Integration with Jenkins |  |  |
| Selenium Webdriver |  |  |  |  |