

Curriculum

- **INTRODUCTION**

- * ... Historical Perspective of Java
- * ... Installing JAVA
- * ... Hello World Application
- * ... Class & Object
- * ... keywords
- * ... Identifiers
- * ... Datatypes
- * ... Arrays
- * ... Command line arguments

- **ACCESS CONTROL**

- * ... Package declaration
- * ... Accessibility modifiers (private, default, protected, public)
- * ... Java Program.g Structure

- **OPERATORS and CONTROL FLOW**

- * ... Increment or Decrement Operator
 - * ... Relational Operators
 - * ... Equality Operators
 - * ... Logical and Conditional operators
 - * ... Ternary operator
 - * ... Assignment Operators
 - * ... Selection Statements
 - * ... Iteration Statements
 - * ... Transfer Statements
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- **OBJECT ORIENTED PROGRAM**

- * ...: Encapsulation
- * ...: Inheritance
- * ...: Polymorphism
- * ...: Overloading vs Overriding
- * ...: Constructors
- * ...: This or super
- * ...: Final and static
- * ...: Abstract class and Interface
- * ...: Marker Interfaces

- **EXCEPTIONS**

- * ...: Introduction
- * ...: Exception Hierarchy
- * ...: Exception vs Error
- * ...: Display error information
- * ...: try-catch-finally
- * ..: Checked vs Unchecked exceptions
- * ..: Multiple catch blocks
- * ..: Nested try blocks
- * ..: Customized Exceptions
- * ..: Throw and Throws

- **MULTITHREADING**

- * ..: Introduction
- * ..: Thread class
- * ..: Runnable Interface
- * ..: Main thread
- * ..: Thread Priorities
- * ..: Thread names

* ...: [Sleep\(\) vs Join\(\)](#) ...

* ...: [Synchronization](#)

* ...: [Inter-thread communication](#)

- **COLLECTIONS and GENERICS**

* ...: [Legacy classes](#)

* ...: [Collection Framework](#)

* ...: [Collection and Collections](#)

* ...: [Collection properties](#)

* ...: [Vector](#)

* ...: [Enumeration, Iterator, ListIterator](#)

* ...: [Sorting collection elements](#)

* ...: [Stack and Queue](#)

* ...: [Set, HashSet, LinkedHashSet, TreeSet](#)

* ...: [Map, Hashtable, HashMap, TreeMap Class](#)

* ...: [Eclipse](#) .
