

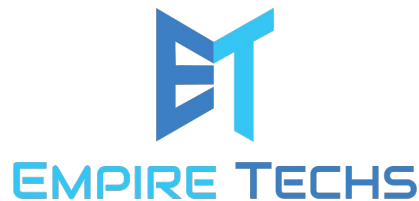


## Empire Techs

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## Core Java Syllabus

- **Basics of Java**
  - Origin
  - Use
  - Installation
  - Frameworks
  - Paid sources v/s Unpaid Sources
- **Programming Fundamentals**
  - Variables
  - Data Types
  - Naming Conventions
  - Basic logistics
- **OOPS Concepts**
  - Object and classes
  - Constructor
  - Blocks
  - Keywords (this, super and final)
  - Polymorphism
  - Composition and Aggregation (HAS-A)
  - Inheritance (IS-A)
  - Exception Handling
  - Encapsulation
- **Arrays**
  - Concept and basic examples
  - Puzzles
- **String**
  - Concept and Basic examples
  - Puzzles
  - Puzzles on String arrays
  - StringBuffer
  - StringBuilder
- **Deep dive into Inheritance.**
  - Refreshing the concept
  - Frequently asked puzzles



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- **Deep dive into Exception Handling**

- Try-catch block
- Try-catch and finally block
- Keywords (throw and throws)
- Try with resources
- Puzzles

- **File Handling**

- Read and write file
- Creation of receipts and billis (retailer system)
- Application (password protected pdf file)
- Maintenance of Flat file system

- **Multithreading**

- **Serialization**

- **Networking**

- Concept
- Socket Programming
- Chat Application

- **MySQL Database**

- CRUD Operations
- Stored Procedures
- Triggers
- Joins
- MySQL Workbench
- SQLyog

- **Swings and AWT**

- Camera access application
- Billing and Mailing application
- QR Code scanner Development
- Data miner tool application
- Integration with other applications (like notepad, csv, etc.)
- Text to speech handler
- Working with OCR
- Handle WEKA and MEKA with Java

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- **Collection Framework**

- Lists
- Maps
- Sets
- Comparable v/s comparator

- **Crucial Application development**

- MySQL operations
- File Handler
- API Integration
- On Demand integration