

### HISTORY & INTRODUCTION

*Introduction to the history and evolution of Java  
.Compilation Process & Understanding Java  
Virtual Machine Environment*

### OPERATORS & BASIC OPERATIONS

*Tokens , Data Types, Variables, Working with operators, Controls statements including if-else, loops,switch case etc*

### DATA STORAGE IN JAVA

*Working with Single & Multi Dimensional Arrays  
String, String Buffer & String Builder, String Tokenizer*

### OBJECT ORIENTED-1

*Understanding Concept of classes, Objects, methods, message passing and static members, working with anonymous static block, constructors and Temporary Instance*

### OBJECT ORIENTED-2

*Inheritance and interface , private interface methods, Anonymous Inner Class , Polymorphism and packages , Exception Handling*

### MULTITHREADING

*Thread Class & Runnable Interface , Thread Life cycle , Thread Synchronization*

### GRAPHICAL USER INTERFACE

*Abstract Window Toolkit & Components . Event Handling Mechanism . Swing Components and Layout Managers*

### DATABASE CONNECTIVITY

*Working with MYSQL , Creating Connection with the database. performing CRUD, JDBC with GUI*

### NETWORKING

*Introduction to computer networks . Working with Server & Client , Using HTTP Request and Response*

### COLLECTION CLASSES

*Working with Date , Calendar & Object Classes, List , Set , Map . Queue and Array List. Auto boxing with collections and generic Types*



### VERSION CONTROL WITH GIT

*Understanding concept of Git & importance of version control , working with core git commands clone, commit, push, pull , branch and merge*



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