



CJC

Complete Java Classes

-BY KUNAL SIR



DREAMS COME TRUE



FULL STACK JAVA DEVELOPMENT

Course



ABOUT US

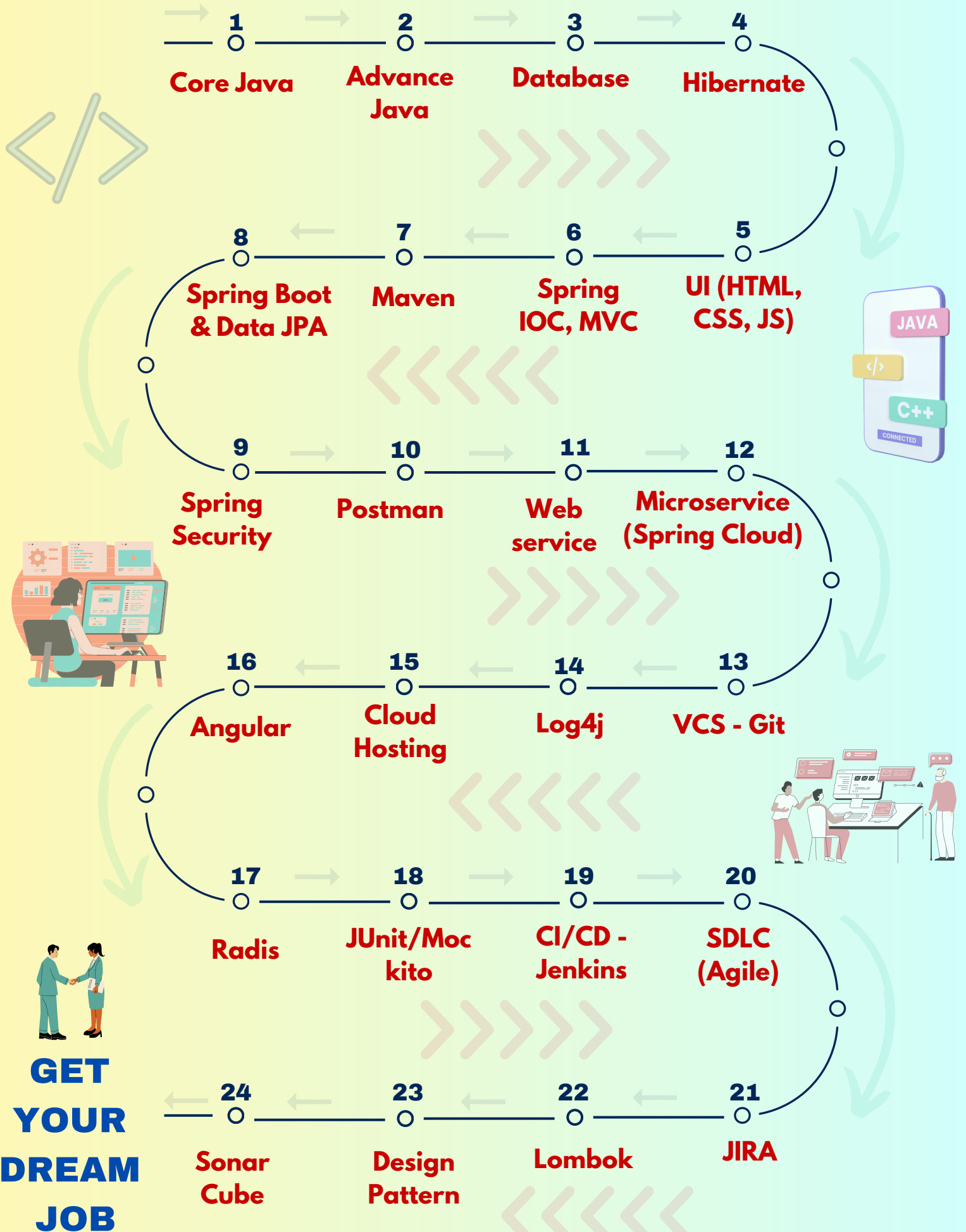
Mr. Kunal Sonu, the Director of Complete Java Classes has Masters degree in Computer Application. He has 12+ years of experience as a certified trainer in Java/J2EE technologies. We provide this industry level knowledge to our valuable candidates which is helpful for candidates to getting placed in the IT industry. Complete java classes by kunal sir is IT carrier building platform for students and job seekers. We have a team of highly skilled and professional trainers so we can provide a better assistance of our students.

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- Conduct weekly mock interview sessions.
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- Providing the Batch shifting facility (In a year) .
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- We provide digital class room facility.
- Availability of Weekdays and weekend batches.

FULL DAY JAVA ROADMAP



1. JDK1.8 NEW FEATURES

Java 8 Interface default method.
Java 8 Interface static Method .
Java 8 Functional Interface.
Java 8 Lambda Expression.
Java 8 for Each () Method.
Java 8 Stream API.
Java 8 Collection.
Important Features of Java.

2. INTRODUCTION TO JAVA

History of Java.
Important Features of Java.
Architecture JDK , JRE and JVM.
Java Keywords.
Simple Hello World Program.
Java Flow Control.
java Source File.
Class and Objects.
Data Types .
Primitive Data Types.
Non - Primitive Data Types .
Constructor (Types of Constructors).
Packages.
Instance & Static Variable .
Static Block.
Has-A Relation(Secondary Reference).
Setter and Getter .
Method return type (primitive type and class type) .

3. EXCEPTION HANDLING

What And Why? (try, Catch, Finally, Throw, Throws, Try With Resources).
Try And Catch Block.
Multiple Catch Blocks .
Nested Try.
Finally Block.
Finally Block With Return Statement.
Throw Keyword.
Exception Propagation.
Throws Keyword.
Throws Keyword With Method Overriding .
Throws Keyword With Constructor.
Throw Keyword With Custom Exception.
Jdk 1.7 Feature Auto Closeable Interface.
Jdk 1.7 Feature Try With Resources .

4. OBJECT ORIENTED PROGRAMMING (OOPS)

Inheritance (IS-A).
Inheritance With Constructor.
Inheritance with parent & Child reference.
Covariant Return Types.
Inheritance and type casting .
This & Super Keyword.
Polymorphism.
Method Overloading.
Constructor Overloading.
Compile time Polymorphism.
Overloading and Narrowing Concept.
Overriding and toString () method.
Abstraction.
Abstract class.
Interface.
Marker Interface.
Interface and Multiple Inheritance.
Interface Uses and Benefit with example.
Difference between Interface and Abstract class .
Encapsulation.
Access Modifier.
Data Hiding.
Access Modifier Implementation.

OOPs Project

5.STRING HANDLING

Introduction of String .
Methods Of String Class.
Way of Creating String Object.
Create Custom Immutable Class.

6.COLLECTION FRAMEWORK

java Collection
List
-ArrayList, Vector and LinkedList,
NestedList .
List Sorting & Duplicate.
Set
-HashSet,TreeSet and LinkedHashSet
Nested Set.
Map
-HashMap and LinkedHashMap ,
ConcurrentHashMap,WeakHashMap.

Cursors Types

Iterator.

List Iterator.

Enumeration.

Java Collections (Utility Class).

Comparable & Comparator.

Custom Sorting.

Collection And Generics.

Collection Project

7. MULTI THREADING

Introduction of Multithreading.

Extends Thread Class.

Implementing Runnable Interface .

Implementing Callable Interface .

Thread Communication (producer-consumer).

Thread Methods (sleep, Join, Yield etc.).

8. SYNCHRONIZATION

Introduction of Synchronization.

Synchronized Method.

Synchronized Block.

Static Synchronization.

9. LOGICAL

Operators

Java Ternary Operator.

if , if Else and nested If Else and ladder.

Switch Statement .

Conditional Related Problems.

Looping Control.

Java For Loop .

Java While Loop.

Java Do While Loop.

Java Break Statement.

Looping Related Problems.

Array

Array Related Problems.

Numeric Logical Problems.

String Logical Problems.

(String Palindrome, Duplicate Removal).

Sorting Problems.

Searching Problems.

File Related Logical Problems.

10. INPUT AND OUTPUT

Introduction of File class.

File Writer & File Reader.

Input From Keyboard By Console.

Input From Keyboard By Scanner Class.

Print Writer Class.

Reading And Writing Data Simultaneously.

11. JDBC API

Introduction Of JDBC .

JDBC Drivers.

Steps To Connect Database In Java.

Connectivity With Oracle.

Connectivity With MySQL.

Driver Manager.

Connection Interface.

Statement Interface .

Prepared Statement .

Callable Statement .

JDBC CRUD Operations .

JDBC Project

12. SQL

Database Introduction.

SQL Introduction .

SQL Features.

MYSQL Introduction.

MYSQL Installation.

Data Types.

DDL,DML,DCL.

Create Table.

Select Statement.

Insert Statement.

Delete Statement.

Update Statement.

DISTINCT and WHERE Clauses.

ORDER BY and GROUP BY Clauses.

SQL JOINS.

SQL Outer Join.

SQL Inner Join.

SQL Left Join.

SQL Right Join.

SQL Full Join.

Stored Procedure.

13. HIBERNATE

Introduction Of Hibernate Framework.
Introduction Of ORM.
Advantage Of ORM.
Hibernate Architecture.
Installation and Direction Structure.
Hibernate Configuration File (HibernateUtil).
Hibernate Java Based First Project Creation.
Hibernate Annotations.
SessionFactory and Session interfaces.
Methods of Session Interface.
Save, update , delete, persist methods.
Difference between Load and Get method
Types of Hibernate Mapping (One -To-One,
One To -Many,Many-To-One,- Many-To-Many)
Hibernate Query Language (HQL).
Hibernate Life Cycle.
Caching in Hibernate (First and Second Level).
Hibernate CRUD Operation.

Hibernate Project

14. SPRING IOC

Introduction Of Spring Framework.
Spring Modules.
What Is Spring IOC Container.
Types Of IOC Container (Bean Factory &
Application Context).
Spring Bean Life Cycle.
Bean Scope (Singleton/Prototype Scope).
Lazy And Eagar Loading Concept.
Dependency Injection .
Setter Based & Constructor Based.
Primitive, Secondary and Collection Type.
Auto Wiring (XML, Annotation Based).
Scope Combination .

15. SPRING WEB MVC

What is Spring MVC.
Features Of Web MVC.
Life Cycle Of Web MVC.
Create The Request And View Pages.
Create Controller .
Configure Dispatcher Servlet.
Configure View Resolver.
Stereotype Annotation In MVC.
Spring MVC Annotation .
Spring Hibernate Integration.
CRUD Application On Spring MVC.

16. MAVEN

Introduction To Maven.
Maven Repositories.
Maven Life-Cycle.
POM concept.
Maven Dependencies.
Spring Boot Project With Maven.

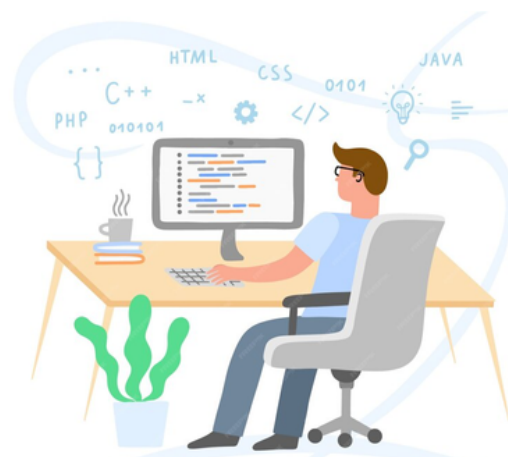
17. SPRING BOOT

Spring Boot Introduction.
Spring Boot Features.
Advantages Over Spring Web MVC.
Way to creates spring boot Application.
Spring Initializer (<https://start.spring.io/>).
Spring tool suite (STS IDE) .
Simple Application Using Spring Boot.
Spring Boot Starters.
@ Spring Boot Application Annotation.
Spring Application.run() method.
Spring Application Class.
Spring Boot Actuator.
Spring Profiles.
Spring Cloud Concept
Spring Security

18. SPRING DATA JPA

Spring Boot Data-base.
Spring Boot JPA annotations.
CrudRepository.
PagingAndSortingRepository.
JpaRepository.
Custom Queries.
CRUD Application on Spring Boot

Spring Boot Project



19. HTML

Introduction of HTML.
Basic Formatting Tags.
Grouping Using Div., Span,
Lists Images Hyperlink Table.
Iframe Form.
Headers .
Miscellaneous Etc.

20. CSS

Introduction of CSS.
CSS Syntax .
Selectors.
Color Background Cursor.
Text Fonts.
Lists Tables.
Box Model.
Display Positioning.
Floats .

21. JavaScript

Introduction to JS.
Data members in JS.
Arrays in JS.
Objects in JS.
function in JS.
Control statements.
Looping Statements.
Arrow Function.
JS with HTML.
JS events.
DOM Object.
DOM methods.

HTML



JS



22. ANGULAR

Angular Installation.
Angular Folder Structure .
Angular Project Flow.
Type Script Data Members & Data Types.
Types of data bindings in Angular.
String interpolation.
Property Binding.
Event Binding.
Two way Data Binding.
Angular Decorators .
Pipes in Angular.
Directives in Angular.
Angular Forms.
Services in Angular.
JSON Server.
Angular CRUD.
Insert data to database.
Get data from database.
Update data in database.
Delete data from database.
Routing
CRUD with Routing.
Bootstrap and font-awesome library.
installation.
Angular material.

Angular Project



23. Web Services

What is an API?
What are Web Services
Why web services?
Postman Tool
Web Services-Architecture
Type of Web Services
o RESTful web services
Java Web Services API
Database connection for API
Web Service Producer and Consumer
Communication between two API using RestClient

24. MicroServices

What are microservices?
Why build microservices
Application architecture patterns
o Monolithic architecture
o Microservice architecture
Microservices with springboot
Connecting microservices to Eureka naming server
Distributing calls using Eureka
Producer and Consumer
Introduction to API Gateways
What is an API Gateway?
Spring Cloud Gateway
Spring Cloud configuration using GIT repository

Interview Preparation



Mock Interviews



Resume Preparation

25. Logging API

Introduction of Log4J
Components of Log4J
Basic Program
Log4j Properties file
Console Properties and File Properties

26. GIT

Git Introduction.
Git Setup.
Basic commands.
Learn about Git Branches.
Git Remotes.
Resolve Git Merge conflicts.

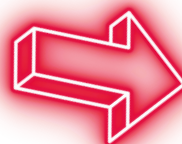


27. Project Tasks

YAML
Lombok
Swagger API
Redis Database
JUnit & Mockito
CI/CD - Jenkins
JIRA
SDLC
Agile
Design Pattern
Sonar Cube
Cloud Hosting



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Student Reviews...



Best classes in pune.



Prashant Warungase

CJC is the best classes in Pune for Java full stack. The teaching staff is so supportive and friendly. They give there best to developed students languages and I suggest to get your admission in CJC by Kunal sir to get best education of language.

Nice environment.



Chandramani Katkamble

Class environment is very nice...all staff is cooperative and Kunal sir helped to build confidence in java proگرامing although i am from non tech background also the practical guidance is very good specially Mr.Nandkishor sir guides personally every student.

Best Institute



Navista Kusur

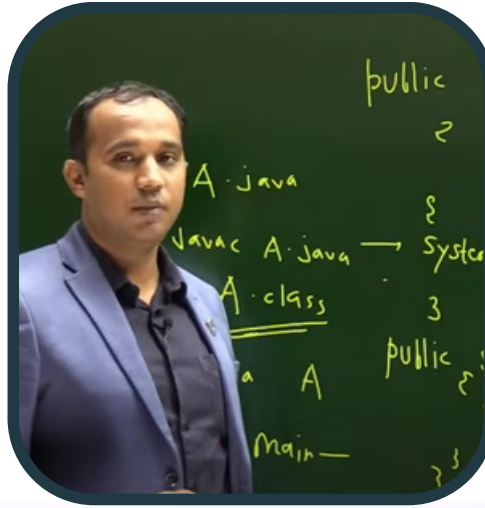
CJC institute is the best class in Pune.The teaching staff is very supportive and friendly.They give best training.I suggest give admission in cjc by Kunal sir to get the knowledge about languages

Encouraging sessions



Amit Bodake

CJC is one of best platform for learning full stack developer and environment of teaching and practical session is encouraging for students



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