



CJC

Complete Java Classes

-BY KUNAL SIR



Programming



CPP SYLLABUS

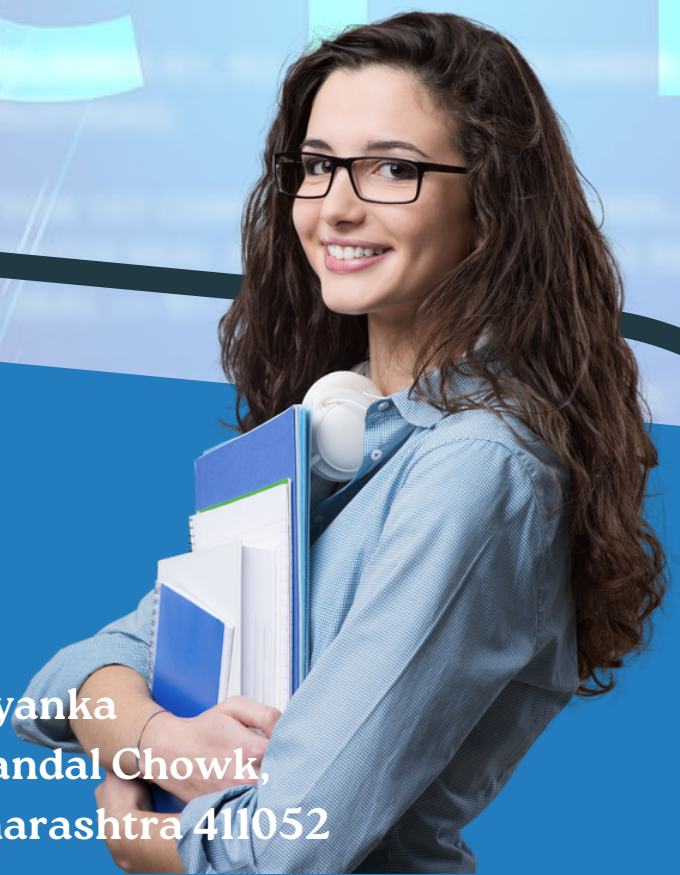
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Complete Java Classes,

1st Floor, Above Rupam Sweets/ Priyanka

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Near Karve Nagar Bridge Pune, Maharashtra 411052



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.

Why we are?

- 👉 **Expert and professional trainers.**
- 👉 **Test Assessments on weekly bases.**
- 👉 **Conduct weekly mock interview sessions.**
- 👉 **To enhance your skill at industry level.**
- 👉 **Providing the industry oriented training.**
- 👉 **We provide the ready made notes and recorded video sessions in our CJC official mobile application.**
- 👉 **We provide the guidance for building the resume.**
- 👉 **Providing the Batch shifting facility (In a year) .**
- 👉 **We enhance your presentation and communication skill.**
- 👉 **We provide the Certificate after the successful completion of our course.**
- 👉 **We provide digital class room facility.**
- 👉 **Availability of weekdays and weekend batches.**

Introduction to C++ Programming

- What is C++, C vs C++
- Features of C++ and its Basic Structure
- Installation of C++
- Simple C++ program structure
- Keywords in C++
- Hello World program using C++
- Comments in C++

Operators and Expressions in C++

- Arithmetic Operators
- Relational and Logical Operators
- The Conditional Operator
- The Increment and Decrement Operators
- The Precedence of Operators

Data Types and Input/Output in C++

- Basic Input/Output
- Using iostream functions like cin, cout
- Variables & Rules for naming Variables
- Basic Data Types- int, char, float, double
- Derived & Enumerated data types
- User defined Data Types

Flow Control Statements and Decision Making in C++

- The if statement
- The if-else statement
- Nesting of if statements
- The conditional expression
- The switch statement
- The while loop The do...while loop, The for loop
- The nesting of for loops
- The break statement and continue statement.
- The goto statement.

Functions in C++

- Function Basics
- Function Prototypes
- Passing Parameters
- Call by Value & Call by Reference
- Passing string to function
- Functions Recursion
- Inline Functions
- Friend Functions

Arrays and Strings in C++

- One Dimensional Arrays
- Multidimensional Arrays
- Passing array to function
- Strings Introduction
- String Built-in functions

Pointers in C++

Basics of Pointers

Pointers and Arrays

Void pointers

Memory Management in C++

Malloc() vs new() in C++

Free() vs delete() in C++

Structures and Unions in C++

- Basics of Structures
- Structures in C++
- Unions in C++

Object Oriented Programming in C++

- Defining a Class
- Creating Objects
- Access specifiers
- Accessing Class Members
- Scope Resolution Operator (::)
- Defining Member Functions
- Member function with argument
- This pointer
- Passing Objects as Arguments
- Returning Objects.

Constructors & Destructors in C++

- Constructors
- Properties of constructors
- Types of constructor
 - Default Constructors
 - Parameterized Constructors
 - Constructor Overloading
- Constructors with Default Arguments
- Destructors
- Differences between Member functions & Constructors
- Differences between Constructors & Destructors
- Static Data Members
- Static Member functions
- Constant Data members
- Constant Member Functions

Inheritance in C++

- Class hierarchies
- Base classes
- Derived Classes
- Types of Inheritance & Programs
 - Single inheritance
 - Multiple inheritance
 - Hierarchical inheritance
 - Multi-level inheritance
 - Hybrid inheritance

Polymorphism and Virtual Functions in C++

- Static Binding
- Dynamic Binding
- Virtual Destructor
- Function Overriding
- Accessing Members using Pointers
- Virtual Functions
- Pure Virtual Functions

Exception Handling in C++

- Types of Errors
- Benefits of exception handling
- try, catch, throw keywords
- Throwing an exception
- 'try' block
- Catching an exception
- Exception objects
- Rethrowing an exception
- Exception Handling Mechanism
- Catching all exceptions
- Nested try blocks

Files Handling in C++

- File Streams Classes
- Opening & Closing a File
- Detection End of File
- File Pointers & Their Manipulation
- Sequential Files
- Random Access Files

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 ★★★★★

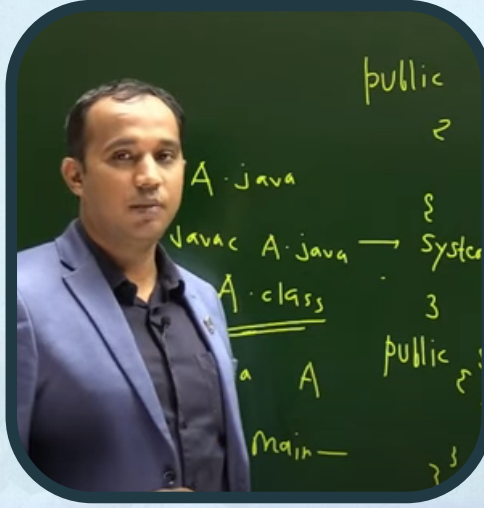
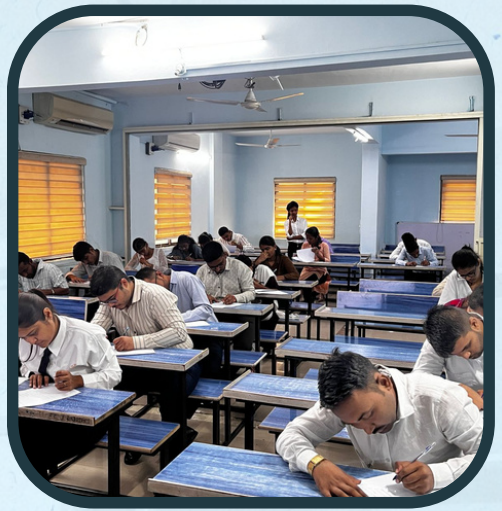
Navista Kusur

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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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