

## Java Tutorial

### What is Java

History of Java

Features of Java

C++ vs Java

Hello Java Program

Program Internal

How to set path?

JDK, JRE and JVM

JVM: Java Virtual Machine

Java Variables

Java Data Types

Unicode System

Operators

Keywords

## Control Statements

Java If-else

Java Switch

Java For Loop

Java While Loop

Java Do While Loop

Java Break

Java Continue

Java Comments

Java Programs

## Java Object Class

Java OOPs Concepts

Naming Convention

Object and Class

Method

Constructor

static keyword

this keyword

## Java Inheritance

Inheritance(IS-A)

Aggregation(HAS-A)

## Java Polymorphism

Method Overloading

Method Overriding

Covariant Return Type

super keyword

Instance Initializer block

final keyword

Runtime Polymorphism

Dynamic Binding

instanceof operator

## Java Abstraction

Abstract class

Interface

Abstract vs Interface

## Java Encapsulation

Package

Access Modifiers

Encapsulation

## Java Array

Java Array

## Java OOPs Misc

Object class

Object Cloning

Math class

Wrapper Class

Java Recursion

Call By Value

strictfp keyword

[javadoc tool](#)

Command Line Arg

Object vs Class

Overloading vs Overriding

## Java String

**What is String** 

Immutable String

String Comparison

String Concatenation

Substring

Methods of String class

StringBuffer class

StringBuilder class

String vs StringBuffer

StringBuffer vs Builder

Creating Immutable class

toString method

StringTokenizer class

Java String FAQs

String Handling quiz-1

## Java String Methods

String charAt()  
String compareTo()  
String concat()  
String contains()  
String endsWith()  
String equals()  
equalsIgnoreCase()  
String format()  
String getBytes()  
String getChars()  
String indexOf()  
String intern()  
String isEmpty()  
String join()  
String lastIndexOf()  
String length()  
String replace()  
String replaceAll()  
String split()  
String startsWith()  
String substring()  
String toCharArray()  
String toLowerCase()  
[String toUpperCase\(\)](#)  
String trim()  
String valueOf()

## Java Regex

**Java Regex API** 

## Exception Handling

### Java Exceptions

Java Try-catch block

Java Multiple Catch Block

Java Nested try

Java Finally Block

Java Throw Keyword

Java Exception Propagation

Java Throws Keyword

Java Throw vs Throws

Final vs Finally vs Finalize

[Exception Handling with Method Overriding](#)

## Java Inner Class

### What is inner class

Member Inner class

Anonymous Inner class

Local Inner class

static nested class

[Nested Interface](#)

## Java Multithreading

### What is Multithreading

Life Cycle of a Thread

Creating Thread

Thread Scheduler

Sleeping a thread

Start a thread twice

Calling run() method

Joining a thread

Naming a thread

Thread Priority

Daemon Thread

Thread Pool

Thread Group

ShutdownHook

Performing multiple task

Garbage Collection

[Runtime class](#)

## Java Synchronization

Synchronization in java

synchronized block

static synchronization

Deadlock in Java

Inter-thread Comm

Interrupting Thread

[Reentrant Monitor](#)

## Java I/O

**Java Input/Output** 

FileOutputStream

FileInputStream

BufferedOutputStream

BufferedInputStream

SequenceInputStream

ByteArrayOutputStream

ByteArrayInputStream

DataOutputStream

DataInputStream

Java FilterOutputStream

Java FilterInputStream

Java ObjectStream

Java ObjectOutputStreamField

Console

FilePermission

Writer

Reader

FileWriter

FileReader

BufferedWriter

BufferedReader

CharArrayReader

CharArrayWriter

PrintStream

PrintWriter

OutputStreamWriter

InputStreamReader

PushbackInputStream

PushbackReader

StringWriter

StringReader

PipedWriter

PipedReader

FilterWriter

FilterReader

File

FileDescriptor

RandomAccessFile

java.util.Scanner

## Java Serialization

Java Serialization

[Java transient keyword](#)

## Java Conversion

**Java String to int** 

Java int to String

Java String to long

Java long to String

Java String to float

Java float to String

Java String to double

Java double to String

Java String to Date

Java Date to String

Java String to char

Java char to String

Java String to Object

Java Object to String

Java int to long

Java long to int

Java int to double

Java double to int

Java char to int

Java int to char

Java String to boolean

Java boolean to String



Date to Timestamp

Timestamp to Date

Binary to Decimal

Decimal to Binary

Hex to Decimal

Decimal to Hex

Octal to Decimal

[Decimal to Octal](#)

## Java Collections

### Collection Framework

Java ArrayList

Java LinkedList

ArrayList vs LinkedList

Java List Interface

Java HashSet

Java LinkedHashSet

Java TreeSet

Queue & PriorityQueue

Deque & ArrayDeque

Java Map Interface

Java HashMap

Working of HashMap

Java LinkedHashMap

Java TreeMap

Java Hashtable

HashMap vs Hashtable

Java EnumSet

Java EnumMap

Collections class

Sorting Collections

Comparable interface

Comparator interface

Comparable vs Comparator

Properties class

ArrayList vs Vector

Java Vector

[Java Stack](#)

## Java JDBC

JDBC Introduction

JDBC Driver

DB Connectivity Steps

Connectivity with Oracle

Connectivity with MySQL

Access without DSN

DriverManager

Connection

Statement

ResultSet

PreparedStatement

ResultSetMetaData

DatabaseMetaData

Store image

Retrieve image

Store file

Retrieve file

CallableStatement

Transaction Management

Batch Processing

[RowSet Interface](#)