

Java Community Class

This Java Community session is intended to assist tech enthusiasts in learning the most popular programming language in the technology sector. This course covers the majority of Java Language features in great detail. These classes don't require any prerequisites.

Duration :

Language : English

Price : None

What you will learn?

- Variables and Operators
- Conditional statements and Loops
- Arrays
- Class and Objects
- Inheritance
- Abstraction
- Package and Interface
- Exception Handling
- Multithreading
- Collection API
- Lambda Expression
- TreeSet
- HashSet
- LinkedHashSet
- Collection Hierarchy

Features

- Course material
- Course resources
- On demand recorded videos
- Practical exercises
- Quizzes
- Assignments
- Course completion certificate

Requirements

- System with Internet Connection
- Interest to learn

- Dedication

Course Curriculum

Day - 1

- Basic Understanding of Computer
- Basic feature of Java

Day - 2

- Main method
- Classes and Objects(Basics)
- Statically typed vs Dynamically types PL
- Variables and data types
- Naming Convention

Day - 3

- Operators in Java
- Incrementation and Decrementation
- Conditional statement

Day - 4

- Loops intro
- for - while - do while
- Nested loops

Day - 5

- Object creation
- instance variable vs local variables
- Methods

Day - 6

- Why array?
- What is an Array?
- How to create an array
- Buffer over run and ArrayIndexOutOfBoundsException
- Disadvantages of Array in Java

Day - 7

- String Introduction
- Types of string
- Immutable string
- Ways to compare and memory map String constant pool
- Inbuilt methods in String class
- Concatination
- Mutable String
- String Buffer vs String Builder
- Inbuilt Methods

Day - 8

- Need of Encapsulation
- What is Encapsulation?
- Private members
- Shadowing problem and this keyword
- Setters ,Getters
- Constructor,
- this()

Day - 9

- Inheritance intro
- extends keyword
- Types of Inheritance
- Types of methods Inherited, overridden, specialized
- Abstract keyword and Abstraction
- Abstract class and Abstract method
- Final keyword in Java

Day - 10

- What is interface
- Need of Interface
- Different use cases of Interface
- Abstract vs interface
- Functional Interface
- What is Lambda Expression

- Different ways to create Lambda Expression

Day - 11

- What is an Exception?
- try catch
- Multiple catch block
- Handling vs Ducking an Exception
- Hierachy of an Exception class

Day - 12

- Why Collection ?
- ArrayList
- LinkedList
- PriorityQueue
- ArrayDeque
- TreeSet
- HashSet
- LinkedHashSet
- Collection Hierarchy