

Core java Course Content

Java Basics:-

1. Programming Language
2. Types of Programming Languages
3. Why Java is Important?
4. Overview of Java
5. Features of Java
6. Java Environment Setup
7. JVM, JRE, JDK
8. Compiling and Execution of a Java Program.
9. Variables , Identifiers, Data Types
10. Static Block
11. Typecasting
12. Conditional and Loop Statements
13. Switch Statement
14. Break and Continue Statement
15. Operators
16. Ways to create an Object in Java
17. Command Line Arguments



Java OOPS Concepts:-

1. Objects & Classes
2. Method in Java
3. Constructors(Default and Parameterized Constructors)
4. Access Modifiers
5. Inheritance
6. Aggregation
7. Method Overloading
8. Method Overriding
9. Runtime Polymorphism
10. this keyword
11. Garbage Collector
12. Static, Final
13. instanceof operator
14. Package
15. SubPackage and static import
16. Interface
17. Nested classes
18. Classes vs Interface

String Handling

1. Introduction to String
2. String class Function
3. StringBuffer class
4. StringBuilder class
5. String Tokenizer

Java Exception Handling

1. Introduction to Exception
2. try and catch blocks
3. try with resource statements
4. Throw, throws and finally
5. Custom Exceptions

Multithreading:

1. Introduction to Multi Threading
2. Thread class
3. Creating Thread
4. Joining Threads
5. Sleeping Thread
6. Thread Priority
7. Deamon Thread
8. Synchronization
9. Thread Group

Advance Concepts:-

1. Enumerations
2. Autoboxing and Unboxing
3. Java I/O streams
4. Serialization
5. Generics

Collection Framework:

1. Introduction to Collections
2. Collection Interfaces
3. Collection classes
4. Iterator and ListIterator
5. Array List and LinkedList
6. Linked List Class
7. Hash Set Class
8. linkedhashset Class
9. Tree Set Class
10. Map Interface
11. Hashmap Class
12. Treemap Class
13. HashTable Class
14. Collections Class
15. Comparable Class
16. Comparator Interface

Wrapper Classes

1. Integer
2. Float
3. Boolean
4. Double
5. Character
6. Short

Java Reflection

1. Introduction to Reflection
2. Reflection classes

Miscellaneous Concepts

1. Inner class
2. File Handling
3. Abstract class

Java 8 Features:-

1. Lambda Expression
2. Java Reflection API
3. Java Collectors Class
4. Method Reference
5. Stream API
6. Date and Time API
7. Default and Static Methods
8. Functional Interface
9. Java Optional class
10. Java Predicate

Java 9,11 Features