

CORE JAVA

K.Ramesh

INTRODUCTION	Historical Perspective of Java
	Java Buzzwords
	class & object
	Installing JDK Sofware
	keywords
	Identifiers
	Datatypes
	Arrays
	main method
	command line arguments
OPERATORS & CONTROL FLOW	Arithmetic Operators
	Increment or Decrement Operator
	Relational Operators
	Equality Operators
	Logical operators
	Short-circuit(or conditional) operators
	Ternary operator
	Assignment Operators
	Type Casting
	Selection Statements
	Iteration Statements
	Transfer Statements
ACESS CONTROL	Package declaration
	Accessibility modifiers (private, default, protected, public)
	import statements
	Java Programming Structure
	Generate JAVA API Documentation
OBJECT ORIENTED PROGRAMMING	Encapsulation
	Inheritance (IS-A Relationship)
	Polymorphism
	Method Signature
	Overloading
	Overriding
	Constructors
	this or super
	Final & static
	Abstract class and Interface
	Marker Interfaces

Ph: 07799208899 / 09885407683

E-Mail: ramesh@java2aspire.com



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Introduction		
Difference between Exception & Error Exception handling using: try-catch-finally Methods to display error information. Checked and Unchecked exceptions Multiple catch blocks. Nested try blocks User defined exceptions (Customized Exceptions) Throw and Throws JAVALANG PACKAGE Hierarchy Object class equals() method and hashing mechanishm String StringBuffer & StringBuilder(jd1.5) Wrapper classes Autoboxing and Unboxing(jdk1.5) MULTITHREADING Introduction Defining, Instantiating, and Starting threads by Extending Thread class implementing Runnable interface Implementing Runnable < <interface>>> Main thread Thread Priorities Thread names Sleep(), Join() Daemon threads Synchronization Interthread communication (wait(), notify() and notifyAll()) Deadlock IO STREAMS & SERIALIZATION File InputStream Reader Writer ByteArray and Character Array Streams Read From Keyboard Primitive Serialization and Deserialization</interface>	EXCEPTIONS	Introduction
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ByteArray and Character Array Streams Read From Keyboard Primitive Serialization and Deserialization		Reader
Read From Keyboard Primitive Serialization and Deserialization		Writer
Primitive Serialization and Deserialization		ByteArray and Character Array Streams
Primitive Serialization and Deserialization		Read From Keyboard
Object Serialization and Deserialization		•
1 ·		Object Serialization and Deserialization

Ph: 07799208899 / 09885407683

E-Mail: ramesh@java2aspire.com



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K.Ramesh

COLLECTIONS & GENERICS	Legacy classe (JDK.10)
	Collection Framework (JDK1.2)
	Generic Types (JDK1.5)
	Collection< <interface>></interface>
	Collections< <class>></class>
	Collection properties and Operations
	Collection, List, Set, Map interfaces
	Enumeration, Iterator, ListIterator
	Sorting collection elements
	TimeComplexity
	Stack, Queue classes, PriorityQueue
	Set, HashSet, LinkedHashSet, TreeSet
	Map, Hashtable, HashMap, TreeMap, Properties classes
	Generic types
IDE	Eclipse
Interview Questions	

Ph: 07799208899 / 09885407683

E-Mail: ramesh@java2aspire.com