

CORE JAVA
By Mr. Nagoor Babu, M.Tech.,
INTRODUCTION

Why Java
Paradigms
Diff b/w Java & Other (C,C++)
Java history
Java features
Java programming format
Java Tokens
Java Statements
Java Data Types
Typecasting
Arrays
OOPS

Introduction
Class
Object
Static Keywords
Constructors
This Key Word
Inheritance
Super Key Word
Polymorphism (Over Loading & Over Riding)
Abstraction
Encapsulation
Abstract Classes
Interfaces
STRING MANIPULATIONS

String
String Buffer
String Tokenizer

PACKAGES

Introduction to all predefined packages
User Defined Packages
Access Specifiers

EXCEPTION HANDLING

Introduction
Pre Defined Exceptions
Try-Catch-Finally
Throws, throw
User Defined Exception examples

MULTITHREADING

Introduction
Thread Creations
Thread Life Cycle
Life Cycle Methods
Synchronization
Wait() notify() notify all() methods

I/O STREAMS

- Introduction
- Byte-oriented streams
- Character oriented streams
- File
- Random-access file
- Serialization

NETWORKING

- Introduction
- Socket, Server socket
- Client Server Communication

WRAPPERCLASSES

- Introduction
- Byte, Short, Integer, Long, Float, Double, Character, Boolean classes.

COLLECTION FRAME WORK

- Introduction
- Util Package interfaces, List, Set, Map
- List interface & its classes
- Set interface & its classes
- Map interface & its classes

INNER CLASSES

- Introduction
- Member inner class
 - Static inner class
 - Local inner class
- Anonymous inner class

AWT

- Introduction
- Components
- Event-Delegation-Model
- Listeners
- Layouts
- Individual components Lable, Button, CheckBox, Radio Button, Choice, List, Menu, Text Field, Text Area

SWING(JFC)

- Introduction Diff b/w awt and swing
- Components hierarchy
- Panes
- Individual Swings components Jlabel, JButton, JTextField, JTextAres.