

Syllabus of Core Java

✚ All about Java

Java Appears , All about Bytecodes Features of Java , Java Environment
Java Development Kit Java Platforms ,Java Virtual Machine ,Java API
Java Programs

✚ Installation Of JAVA

Getting and Installing Java, What about CLASSPATH?, Subfolders
Created by JDK, Creating Source Files,
Knowing Java's Reserved Words

✚ Creating an Application

Line 1—public class App ,
Line 2—public static void main(String[] args) ,
Line 3—System.out.println(“Hello from Java!”); Compiling Code
Cross Compilation options ,Java Packages, Comments,
Compilation of JAVA Code Import JAVA Classes , JAVA packages

✚ Basics Operations in JAVA

Variable declaration, variable initialization, static variable declaration,
final variables, Scope with public private protected default, programs
with concepts and scope of variable

✚ Methods in JAVA

Method declaration , return type, scope of method, Method
Overloading, Method Overriding ,Data types in Method
10 programs on methods

✚ Array String & Literals

Creating integer, Floating ,Boolean ,literals in JAVA, Various data
Types , Type Casting , Declaring Array, Creating Arrays , 1D Array

✚ Programs / Assignment

WAP to find Maximum value from array

WAP to get the Average of Array

WAP to perform SUM of all values of integer array

WAP program to copy String Array from one to Another

✚ Programs / Assignment

How to compare String in JAVA

How to remove a particular character in a String

How to remove a substring inside a String by another one

How to reverse a String

Reverse a String

How to search word inside String

Split word into number of substring

Covert String to Uppercase and LowerCase

Match a region into a String

Optimize String creation

Format a String

Get Unicode of String

How to Buffer a String

✚ Object Oriented Programming

Classes

Objects

Data Members

Methods

Inheritance

Exception Handling

Debugging

✚ Inheritance with Class and Interface

What is inheritance, Types of Inheritance, extends & implements keywords, Subclass in inheritance, Access Specifiers and Inheritance

Creating Multilevel Inheritance, Overriding Methods, Accessing Overridden Members, Stopping Overriding with **final**, Stopping Inheritance with final, creating inner classes , Constructor Overriding

✚ Programs/ Assignment

WAP program for single inheritance

WAP for multilevel inheritance

WAP to work with Interface

Inheritance from interface to class

Creating interface

Inheritance from interface

WAP to perform working on interface

WAP to overload & Override constructor

✚ Polymorphism

What is polymorphism , Compile Time polymorphism, Run Time polymorphism(Method Overriding) ,Method overloading, Operator Overloading

WAP to perform Runtime Polymorphism

WAP to perform operator overloading

WAP to perform compile time polymorphism

✚ Inner Class

JAVA inner Classes , Private Inner class, static inner classes, Access Outer Class from inner class ,

WAP programs to create inner class

WAP a program for static inner classes

WAP to perform enableability of inner classes

✚ Abstraction

Abstraction, Abstract Method, Abstract Classes, Advantages of Abstraction

Is it possible to create abstract and final class in Java?

Is it possible to have an abstract method in a final class?

Is it possible to inherit from multiple abstract classes in Java?

WAP program to demonstrate abstraction

Abstraction and Interface

✚ Encapsulation

What is encapsulation, get and set in encapsulation, Program for demonstration of Encapsulation with example, why encapsulation, Advantages of Encapsulation

✚ Collection Framework in JAVA

What is collection framework, Uses of collection framework, ArrayList, LinkedList, Array List Vs. LinkedList, List Interface, Hash Set , Linked Hash Set, JAVA Tree Set, Queue & priority Queue ,Deque & Array Deque , MAP Interface ,HashMap Interface , Linked HashMap, Tree Map, EnumSet, EnumMap,Collection class, Sortings Collection,Vector, ArrayList Vs. Vector

✚ Multithreading in JAVA

What is thread , Life cycle of thread, creating thread , Scheduling thread, sleeping threads calling run(), joining thread, Thread Group, Thread pool

✚ JDBC

What is JDBC

What are different types of Databases

Drivers for JDBC

Connecting to Database

Insertion with the Database

ResultSet in DATABASE

Statements in JDBC

Performing various operations on Database

✚ Hands on for the JAVA Programming concept for interview

WAP to print Fibonacci Series

WAP to print Prime Number

WAP to demonstrate Palindrome

WAP to demonstrate Integer Palindrome

WAP to print Armstrong Number

WAP to avoid deadlock in JAVA

Factorial programs in java

Remove duplicates from array in JAVA

WAP to calculate square root in JAVA

String Anagram in JAVA

Sort array using Quick Sort

Insertion Sort

Bubble Sort

WAP to print all permutations of String

WAP to reverse a string in place

Adding to metrics in JAVA

WAP to perform Matrix Multiplication

Remove all white spaces in String

WAP to perform reverse linked list

WAP to find length of linked list

Find Middle of Link List

WAP program to sort linked List

WAP to perform iterative Sort

WAP to perform Iterative QuickSort
WAP to perform Bucket Sort
Check for the string are the rotation of each other
WAP to perform LRU cache in JAVA
Performing with Merge Sort
Add on More Program on JAVA



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