Core Java

Topics covered in Core JAVA Course

- Java Fundamentals
- Functions
- Object oriented Programming
- Exception Handling
- Thread handling

Course Syllabus in details

Introduction To Java
- Java History
- Why Java
- Features of Java
- Environment Setup
- Hello World Application
- Java Program Internal
- JDK, JRE, JVM
- JVM- Java Virtual Machine
- Class, Objects, Data Types
- Variables
- Type Casting
- Operators
- Java Comments

Object Oriented Programming Concepts
- Abstraction
- Encapsulation
- Polymorphism
- Inheritance

Java Coding Standards
- Package – Creating package, naming package
- Java Keywords
- Access Specifiers – Public, Private, Protected, Default
- Static Concept – Block, Variable, Method, Class
- Scanner Class
- Control Statement – If, If…else, Nested if…else and Switch Case
- Java Break Statement
- Java Continue Statement
- Flow Statement- for, while, do..while
- Constructor- Default, Parameterized

Inheritance
- Extends, super and this keyword
- Method Overloading, Method Overriding
- Interface
- Abstract Class

- Abstract Class vs Interface

Garbage Collection
- Serialisation
- Java instanceof
- Instance initializer block
- Volatile Keyword in Java

Exception Handling
- Exception Handling- try, catch, throw, throws, finally

String Concept
- String Basics
- String Methods
- String Buffer
- String Builder

Custom Immutable Class

Java - Arrays

Collection
- Framework Collection
- Basics Iterator Interface
- Methods of Collection Interface

List
- Array List
- Linked List
- Vector

Set
- Hash Set
- Tree Set

Map
- Hash Map
- Tree Map
- Hashable

Collection Framework Advance Concepts

Comparable Interface

Comparator Interface

Collections class

Differentiate Comparable and Comparator

Java Enum

Date Concept

File Handling Concept
- File Handling Basics
- Create Folder
- Create File- .txt. .pdf, .xlsx, .docs, etc
- Write File
- Read File
- Delete File

Thread
- Concept, Lifecycle
- Extends Thread
- Implement Runnable Interface
- Thread Priorities
- Thread Methods
- Multithreading
- Thread Synchronisation

- etworking Programming
- Python GUI Programming

The Python syllabus followed by Vidya is from Cisco Networking Academy Partnership so there will be added benefits such as
- Course Completion Certificate from Cisco NetAcad.
- If they are opting for Python + PCAP Exam Bundle in a Cisco Network Academy , then there will be 50% off on the cost of PCAP exam