**Java Course Outline**

* **Day1:-**
  + What is Java
  + Why Java is Platform Independent
  + How Java code works
  + JDK vs. JRE vs. JVM
  + **The JVM**
  + Type of Java files
  + Java Naming conventions
  + Identifiers and Rule to name Identifiers
  + Java Source file declaration rules
  + First Java Program.
* **Day2:-**
  + What is a java Class
  + Creating a Java class
  + What are objects in Java
  + Object creation in java
  + Java Heap
  + Creating first Object
  + Object Lifecycle and Garbage collection in Java
  + Java Variables and its type
  + What is Reference variable?
  + Data types in Java
  + Primitive vs. Non Primitive data types.
  + Declaration and Initialization of Primitive variables
  + Java String and String Concatenation
  + Operators in java.
* **Day3:-**
  + Introduction to Methods
  + Method signature
  + Method declaration
  + Method Return Type
  + Arguments and Parameters in method
  + Method body
  + Instance vs. local variables.
  + Predefined Methods
  + Method calling Method
  + The If statements
* **Day4:-**
  + Loops in Java
  + Dealing with while loop
  + The Do-while loop
  + For Loop
  + Nesting of Loops
  + Break and Continue statements
  + Switch statements
  + Enhanced for Loop
  + Introduction to Arrays
  + Declaration and initialization of array
* **Day5:-**
  + Multidimensional Arrays
  + Packages in Java
  + Accessing package using import
  + Access modifiers in Java
  + Class level Access modifiers
  + Class Member level Access Modifiers
  + Creating and Using Jar files
  + Object Orientation in Java
  + Encapsulation
* **Day6:-**
  + Inheritance in Java
  + Types of Inheritance in java
  + Polymorphism
  + Data Abstraction and Abstract class in java
  + Abstract method
  + The OBJECT class
* **Day7:-**
  + Abstract classes and Interface
  + The super keyword
  + This keyword
  + Constructors
  + Static components
  + Final keyword
  + Exception handling
* **Day8:-**
  + Collections
  + Vectors
  + Hash table
  + List and its type
  + Set and its type
  + Map and its type
  + The Collections class
* **Day9:-**
  + The String class
  + Important methods of String class
  + Manipulating strings in java
  + Multithreading concept in java
  + Reading and writing text file
* **Day 10:-**
  + Apache POI
  + Reading excel file using POI
  + Writing excel file using POI
  + Input and Output in java