



MASTER A PROGRAMMING LANGUAGE – JAVA


CURRICULUM

1	INTRODUCTION <ul style="list-style-type: none">• What is Java• History of Java• Features of Java
	<ul style="list-style-type: none">• C++ and Java• First Program• Installation
2	<ul style="list-style-type: none">• JDK, JRE and JVM• Byte Code and Source Code• IDE• Program Internals
	<ul style="list-style-type: none">• Java Variables• Datatypes• Static keyword• Operators QUIZ-1
3	<ul style="list-style-type: none">• Operators• Keywords• Control Statements(Explanation)• If Else
	Command Line args <ul style="list-style-type: none">• Switch Case• For Loop• Comments
4	<ul style="list-style-type: none">• Do while loop• Break and Continue• While Loop

	<p>Pattern programs Logic Building programs</p>
5	<p>Java Object Class</p> <ul style="list-style-type: none"> • OOPs Concept • Naming Convention • Object and Class <p>Quiz</p>
	<ul style="list-style-type: none"> • Methods • Constructor • This
6	<p>Inheritance Concept Types</p> 
	<p>Java Inheritance Is A Has A</p>
7	<p>Java Polymorphism</p> <ul style="list-style-type: none"> • Method Overloading • Method Overriding • Covariant Return Type
	<ul style="list-style-type: none"> • Super Keyword • Instance Inintalizer Block • Final Keyword
8	<p>Runtime Polymorphism</p> <ul style="list-style-type: none"> • Dynamic Binding • Instance of

	<p>Java Abstraction</p> <ul style="list-style-type: none"> • Abstract Class • Interface
9	<ul style="list-style-type: none"> • Interface vs abstract class • Packages <p>Quiz-4</p>
	<ul style="list-style-type: none"> • Access Modifiers • Encapsulation
10	<p>Java Array</p> <ul style="list-style-type: none"> • Single Dimensional • Multi Dimensional
	<p>Basic Essentials</p> <ul style="list-style-type: none"> • Object Class • Object Cloning • Math Class
11	<ul style="list-style-type: none"> • Call by value • Java Recursion (*) • Strictfp keyword <p>Quiz</p>
	Java String
12	Regex and forEach

	<p>Exception Handling</p> <ul style="list-style-type: none"> Intro Try catch block Finally block
13	<p>Exception Handling</p> <ul style="list-style-type: none"> Throw Propagation Throws <p>Quiz</p>
	<p>Java Inner Class and Exception Handling Conclusion</p> <ul style="list-style-type: none"> Custom exception Method Overriding with exception Inner Classes
14	 <p>Multi-Threading</p> <ul style="list-style-type: none"> Intro Life Cycle Schedular Sleeping
	<p>Multi-Threading</p> <ul style="list-style-type: none"> Sleeping and starting a thread Thread structure config Joining a Thread
15	<p>MULTI THREADING</p> <ul style="list-style-type: none"> Daemon Thread pool Multiple Tasks <p>Quiz</p>
	<p>Garbage Collection</p> <ul style="list-style-type: none"> Runtime Class Thread Group
16	<p>Java Thread Sync</p>

	<p>Collection Framework</p> <p>Introduction</p> <p>Concept</p> <p>Collection Class</p>
17	<p>Collection vs Collections</p> <p>ArrayList</p> <p>Vector</p>
	<p>Java IO</p> <p>INTRODUCTION</p> <p>File Streams (IO)</p> <p>BUFFERED IO</p>
18	 <p>Java IO</p> <p>DATA IO STREAM</p> <p>READER AND WRITER</p> <p>FILE READER AND WRITER</p> <p>Quiz</p>
	<p>Java IO</p> <p>BUFFERED READER AND WRITER</p> <p>PIPED READER AND WRITER</p> <p>FILTER READER AND WRITER</p>
19	<p>Java IO</p> <p>JAVA.UTIL.SCANNER</p> <p>FILE DESCRIPTOR</p> <p>FILE PERMISSION</p> <p>CONSOLE</p>
	<p>Server Socket Programming //</p> <p>Networking Basic concepts</p> <p>Socket Programming</p>
20	<p>Server Socket Programming //</p> <p>InetAddress class</p> <p>DatagramSocket class</p> <p>Quiz</p>

	Java Date and Conversion
21	Java Reflection API
	Java JDBC INTRODUCTION DRIVER CONNECTIVITY
22	Java JDBC DRIVER MANAGER CONNECTION AND RESULTSET PREPARED STATEMENT
	Java JDBC STROING AND RETRIEVING IMAGE BATCH PROCESSING TRANSACTION MANAGEMENT Quiz
23	Stream API and Lambda Expression
	AWT and Swings INTRO STRUCTURE COMPONENTS APPLET
24	AWT and SWINGS INTRODUCTION AND USAGE TO COMMON COMPONENTS

	AWT and SWINGS Event handling Swings common components Quiz
25	<ul style="list-style-type: none">• Java 9 features• Interface private method• Try with resources• JShell
	JVM COMPLETE
