

To learn the complete Java development candidate must know the prior knowledge of Basic Object oriented programming. Logic and decision making of code.

Duration – 40 / 45 Working Sessions

CHAPTER -1
<ul style="list-style-type: none">• Introduction of programming languages• Need of Java• Role of Compiler• Features of Java• Role of JVM• How to install Java• IDE – Eclipse Installation• Overview of Eclipse
CHAPTER -2
<ul style="list-style-type: none">• Basic programming structure of Java• How to write main function in Java• Naming Conventions of Java• How to print and read data in Java
CHAPTER -3
<ul style="list-style-type: none">• How to create class in Java• Features of OOP in JAVA• Inheritance Types of Inheritance of Java Super keyword• Project on inheritance of Java• Abstract class & Interface• Project on Interface• Constructors• Use of this keyword
CHAPTER -4
<ul style="list-style-type: none">• String DataType• String Class• Built in functions of strings – Operations on Strings• String Buffer String Builder class• StringTokenizer class
CHAPTER -5
<ul style="list-style-type: none">• Exception & Error handling• Introduction of built-in exception classes• Try .. catch Block• Neasted Try..catch• Exception handling with method overload• Customized Exception handling• Use of throw and throws keyword• Use of Final Finally Finalize (Garbage Collector in Java)
CHAPTER -6
<ul style="list-style-type: none">• Threads in Java• Definition Use Application of Thread• How to implement thread in Java

- Thread as Class
- Thread as Interface
- Thread as Instance
- Synchronization Problem of Thread
- Thread Synchronization using synchronized keyword
- Thread Synchronization using synchronized Blocked
- InterThread Communication
- Thread Priority
- Daemon Thread

CHAPTER-7

- File Handling in Java
- Operations on File
- Understanding of FileInputStream | BufferedInputStream | File Reader class
- Understanding of FileOutputStream | BufferedOutputStream | FileWriter class
- Understanding of Data Input | Data output Stream class

CHAPTER-8

- Serialization & Deserialization process
- Encryption & Decryption Algorithm Implementation Technique

CHAPTER-9

- Collection Framework
- Classes of Collection framework
- ArrayList | LinkedList | PriorityQueue
- HashSet | LinkedHashSet | TreeSet
- HashMap | LinkedHashMap | TreeMap
- Iterator | ListIterator

CHAPTER -10

- Basics of Networking
- URL | SOCKET | IP Address | Port No
- Use URL class
- Use of URLConnection class
- Use of HttpURLConnection class
- Socket programming

CHAPTER -11

- Introduction JDBC
- Introduction of DBMS
- Installation of MySQL Server
- Basic SQL commands of MySQL
- How to Integrate MySQL and Eclipse IDE
- Class use in JDBC – Statement | Prepared Statement | Result Set | Connection | Driver manager
- How to perform CRUD operation on DBMS using Java

WEB APPLICATION OF JAVA – ADVANCE JAVA

CHAPTER-12

- Introduction of Web application in Java
- Basic Need of Server client applications

- Overcome of AWT | APPLET | SWING
- Requirement of Web Application Creation
- Introduction of Server
- Installation of Server (ApacheTomcat)
- Integration of Server in Eclipse

CHAPTER-13

- Introduction of Servlet
- LifeCycle of Servlet
- Generic | Http Servlet
- Builtin function of Servlet
- Doget() | Dopost()
- HttpservletRequest | HttpServletResponse
- setcontentType() | SendRedirect()

CHAPTER-14

- Folder Hierarchy of Enterprise Edition of Eclipse
- How add Basic servlet

CHAPTER-15

- Web Application using Servlet
- Use of web.xml file

CHAPTER-16

- Web Application using Customized Html template designs
- Built Servlet project using HTML Designs

CHAPTER-17

- Web Application integrate with JDBC
- Perform CRUD operations of WEB application

CHAPTER-18

- Deployment of Project
- Introduction of Hosting
- Introduction of Cpanel | WHM
- Creation of .WAR file
- How to deploy .WAR file and access project through other client or other mobile devices

JAVA MVC framework must require the basic knowledge of Java core framework + Web application

Basic knowledge of HTML | CSS | JS is needed to deal with graphics part.

JAVA MVC - Frameworks
Struts
<ul style="list-style-type: none">• Need of Struts• Model 1 vs Model 2• Steps to create struts application• Understanding the application class• Understanding struts.xml file• Integration of Struts2 in Eclipse
<ul style="list-style-type: none">• Core components of Struts• Interceptor• Value Stack• Action Context• Action Invocation• OGNL
<ul style="list-style-type: none">• Validation• Custom Validation• Bundle Validation• Required String String Length Email Date URL
Hibernate
<ul style="list-style-type: none">• Hibernate Introduction• Hibernate Architecture• Implementation of Hibernate using XML• Implementation of Hibernate using Annotation
<ul style="list-style-type: none">• Hibernate Inheritance mapping• Table Per Hierarchy• Table Per concrete class• Table Per Sub class
<ul style="list-style-type: none">• Hibernate Mapping Using Collection
Spring
<ul style="list-style-type: none">• Spring Introduction• Dependency Injection• Constructor Injection• JDBC Template• Spring MVC Introduction

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