

PSK TECHNOLOGIES PVT. LTD.

Web Development & Training ,Sales & Services

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Core Java Content

Lesson 1:Introduction to java

- What is java
- Introduction to JVM
- Classes and Objects
- Setting a Class Path
- Simple Program in Java (Compile & Run)
- Data Types & Identifiers
- Operators
- Declaring constant value
- Use of DataInputStream class
- Use of Scanner class
- Conditional Statements
- Array & Looping (Mix concepts)

Lesson 2:Constructor

- Declaring constructor
- Parameterized Constructor
- Copy constructor
- User Define Constructor

Lesson 3:Static Variable

- Static and non-static variable
- Static block
- Calling static and non-static variable
- Declaring static value

Lesson 4:This Keyword

- Definition of this
- Without using 'this' keyword
- Using 'this' keyword
- Call of this
- Returning of 'this'
- Constructor call using 'this'

Lesson 5:Inheritance

- Types of inheritance
- Use of 'extends' and 'super' keywords
- Inheritance with constructor and methods
- Why multiple inheritance is not there in java
- Aggregation Inheritance

Lesson 6:Abstraction

- Abstract with class and methods
- Upcasting with objects
- What is Interface
- Use of 'implements' keyword
- Interface with class

Lesson 7:Method Overriding and Overloading

- Difference between Overriding and overloading
- Concept of downcasting
- Polymorphism

Lesson 8:Final and instanceOf keywords

- Final variable
- Final methods
- Use of 'instanceOf' keyword

Lesson 9:Exception Handling

- Simple Program Of Exception Handling
- Use Of Try And Catch
- Arithmetic exceptions
- ArrayIndexOutOfBoundsException exception
- NumberFormatException
- Nested try/catch
- User defined exception
- Use throw and throws

Lesson 10:Multithreading

- What Is Thread
- Sleep method
- Current thread method
- Thread priorities
- Program With Multithreading

- Creating thread using 'Thread' class and 'Runnable' interface
- Synchronization
- Use of 'isAlive' and 'join' method
- Use of 'wait' and 'notify'

Lesson 11:String Handling

- Using Various Types Of String Functions
- String constructor
- Character extraction
- Use of StringBuffer class
- Equals(),indexOf(),charAt(),getcahrs(),setCahr(),charAt(),insert(),reverse(),toString(),trim()

Lesson 12:File Handling

- Different file methods
- Reading/writing of file
- Creating directories
- Copy,renaming files
- FileOutputStream,FileInputStream,InputStream,OutputStream
- Using FileNameFilter
- Working with file objects
- File I/O basics

Lesson 13:Applet and AWT

- Applet Basics
- Init() and paint() method

- Introducing AWT
- Buttons,Labels,Textfields,Checkbox,CheckBoxGroup,Choice control,List control
- Using AWT layouts
- MouseListener and MouseMotionListener
- Adapter class,Nested class and Anonymous inner class
- Creating Frame, Closing frame, Applet and frame
- Cardlayout,Panel,Menus

Advance Java Content

Lesson1:Java Swing

- Images,JButton,JTextField,JCheckbx,JRadioButton,JPanels
- ToggleButton control,JScrollPane
- JTree,DefaultMutableTreeNode,Hashtable
- JTabbedPane,SetRolloverIcon,SetSelectedIcon
- DialogBox Control

Lesson2:JDBC(java database connectivity)

- Intorduction to JDBC
- MySQL database
- Creating database
 - ✓ Create
 - ✓ Retrieve
 - ✓ Update
 - ✓ Delete
- Creating connectivity to database
- Creating packages in Netbeans IDE
 - Connection to database
- Using MySql JDBC jar
- Use of Statement class

- Use of PreparedStatement class
- Creating SingletonConnection class

Lesson3:Servlet

- Web application basics
- Introduction to servlet
- Developing servlet
- Handling Request and Response
- Initializing servlet
- Accessing database
- Creating HTML file
- Creating Web.xml file
- Handling CRUD operation

Lesson4:JSP(Java Server Pages)

- Why JSP
- JSP Scripting elements
 - ✓ JSP Comment
 - ✓ JSP Expression
 - ✓ JSP Scriptlet
 - ✓ JSP Directive
- JSP with database