



Java Course Contents



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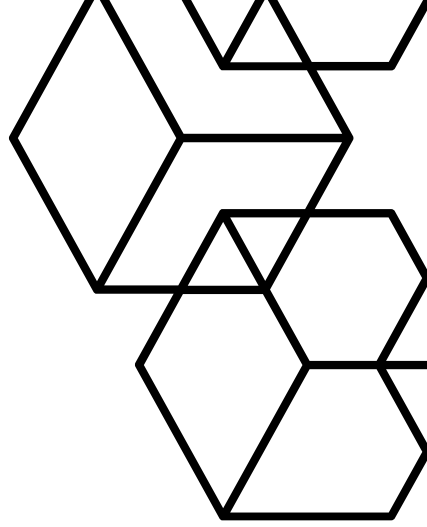
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CHAPTER 1 : INTRODUCTION TO JAVA

- Overview of Java
- Java installation and setup
- First Java Program
- Data Types in Java
- Variables
- Operators
- Comments
- Control Statements
- Arrays

CHAPTER 2 : OBJECT-ORIENTED PROGRAMMING IN JAVA

- Classes and Objects
- Inheritance
- Polymorphism
- Interfaces



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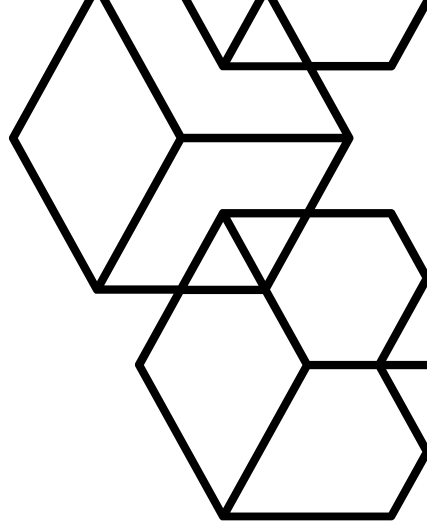
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- Abstract classes
- Encapsulation
- Overloading and Overriding

CHAPTER 3 : EXCEPTION HANDLING

- What are exceptions?
- Handling exceptions using try-catch block
- Multiple catch blocks
- Exceptions hierarchy
- User-defined exceptions



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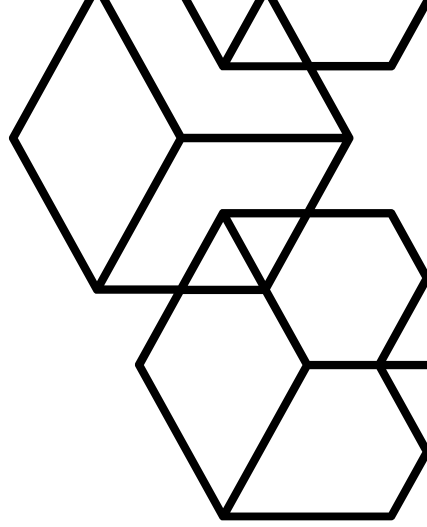
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CHAPTER 4 : JAVA PACKAGES AND APIS

- What are packages?
- Creating and using packages
- Java API
- Java.lang package
- Java.util package
- Java.io package

CHAPTER 5 : MULTITHREADING

- Introduction to multithreading
- Creating threads
- Synchronization of threads
- Thread safety
- Thread priorities



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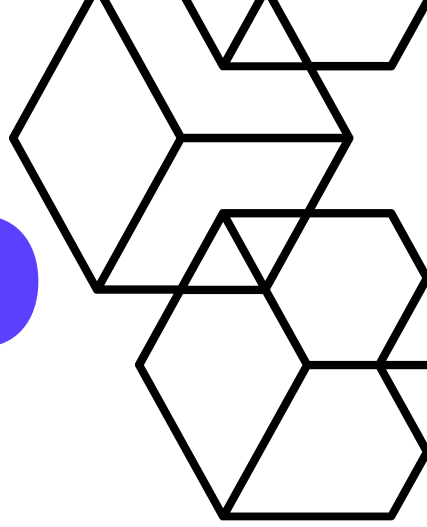
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CHAPTER 6 : INPUT-OUTPUT OPERATIONS IN JAVA

- Introduction to Input-Output operations
- Byte streams and Character streams
- File handling in Java
- Reading and writing data using streams
- Serialization and Deserialization

CHAPTER 7 : COLLECTIONS IN JAVA

- Introduction to collections framework
- ArrayList
- LinkedList
- HashSet
- LinkedHashSet



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- TreeSet
- HashMap
- LinkedHashMap
- TreeMap

