

Core Java

1 Java IO: Files

Create a file

Construct file path

Set the file permission

Read file with `BufferedInputStream`

Read file with `BufferedReader`

Write file with `FileOutputStream`

Write file with `BufferedWriter`

Append content to file

Delete a file

Delete files with certain extension only

Find files with certain extension only

Rename a file

Copy a file

Move a file to another directory

Get the file creation date

Get the file last modified date

Change the file last modified date

Make a file read only

Get file size

Get the filepath of a file

Get the total number of lines of a file

Check if a file exists

Check if a file is hidden

Read UTF-8 encoded data from a file

Write UTF-8 encoded data into a file

Assign file content into a variable

Generate a file checksum value

Convert File into an array of bytes

Convert array of bytes into File

Convert String to InputStream

Convert InputStream to String

Convert File to Hex

Get total of free disk space in your partition or volume

2 Exception Handling

What Is an Exception?Using Identifiers

The Catch or Specify RequirementUsing Variables

How to Throw Exceptions

The try-with-resources Statement

Unchecked Exceptions — The Controversy

Advantages of Exceptions

3 Collections

ArrayList class

LinkedList class
ListIterator interface
HashSet class
LinkedHashSet class
TreeSet class
PriorityQueue class
Map interface
HashMap class
LinkedHashMap class
TreeMap class
Hashtable class
Sorting
Comparable interface
Comparator interface
Properties class in Java

4 Generics

Java Generics Example
Generics with Class and Interfaces
Generics Type Naming Convention
Generics in Methods and Constructors
Generics Bounded Type Parameters
Generics and Inheritance
Generic Classes and Subtyping

Generics Wildcards
Generics Upper Bounded Wildcard
Generics Unbounded Wildcard
Generics Lower bounded Wildcard
Subtyping using Generics Wildcard
Type Erasure

5 Threads

Creating Threads
Using Runnable
Synchronization
wait, notifyAll, and notify
Details of Waiting and Notification
Thread Scheduling
Deadlocks
Ending Thread Execution