**✅ Core Java Topics for SDET Interview**

**🔹 Basics & OOPs Concepts**

* Java syntax, data types, variables
* Loops, conditionals
* **Object-Oriented Programming (OOPs)**
  + Class & Object
  + Inheritance
  + Polymorphism (overloading vs overriding)
  + Abstraction
  + Encapsulation
  + Interfaces vs Abstract Classes

**🔹 Collections Framework**

* List (ArrayList, LinkedList)
* Set (HashSet, TreeSet)
* Map (HashMap, TreeMap, LinkedHashMap)
* Iterator, ListIterator
* Comparable vs Comparator

**🔹 Exception Handling**

* try-catch-finally
* throw vs throws
* Checked vs Unchecked Exceptions
* Custom Exceptions

**🔹 Java 8 Features**

* Lambda expressions
* Functional Interfaces
* Streams API (filter, map, reduce)
* Optional class
* Method references

**🔹 File Handling**

* Reading/Writing files (FileReader, FileWriter, BufferedReader, etc.)
* File operations using java.io and java.nio

**🔹 Multi-threading (Basics)**

* Thread creation (Runnable vs Thread class)
* Lifecycle of thread
* Synchronization (if asked)
* Thread safety basics

**🔹 Unit Testing in Java**

* JUnit basics
* Test annotations (@Test, @Before, @After, etc.)
* Assertions
* Parameterized tests

**🔹 Java with Selenium (optional but useful if working outside Tosca)**

* WebDriver basics (if mentioned in resume)
* Integration of Java with test automation tools