

Advanced Programming in Java™

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Once the reader has read the information provided in each chapter, and solved the related programming exercises, he or she should be able to do the following:

1. Threads

- Understand the concept of threading.
- Know how to synchronize operations.
- Know how to use the `Runnable` interface.
- Know how to use the `volatile` keyword.
- Understand how and when to use Thread-Local Storage.

2. Object Serialization

- Know how to serialize to, and deserialize from, persistent storage.
- Understand how to write custom serialization code.

3. Sockets

- Know how to create and use server- and client-side sockets.
- Know how to serialize data over a socket.

4. Cloning Objects

- Know how to use existing `clone` functions and how to write new ones.
- Understand how to clone arrays, and objects of derived type.

5. Documentation Comments

- Know how to write documentation comments.
- Learn how to use `Javadoc`.

6. Java Archives

- Know how to create a jar file.